#### Alabama Department of Environmental Management adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 Post Office Box 301463 Montgomery, Alabama 36130-1463 (334) 271-7700 FAX (334) 271-7950

MARCH 20, 2018

MR ALLEN RENTZ HSSE MANAGER-GULF COAST REGION ZENITH ENERGY TERMINALS LLC - MOBILE P O BOX 1069 MOBILE AL 36633

RE:

**DRAFT PERMIT** 

NPDES PERMIT NUMBER AL0003565

Dear Mr. Rentz:

Transmitted herein is a draft of the referenced permit.

We would appreciate your comments on the permit within 30 days of the date of this letter. Please direct any comments of a technical or administrative nature to the undersigned.

By copy of this letter and the draft permit, we are also requesting comments within the same time frame from

Our records indicate that you are currently utilizing the Department's web-based electronic environmental (E2) reporting system for submittal of discharge monitoring reports (DMRs). Your E2 DMRs will automatically update on the effective date of this permit, if issued.

The Alabama Department of Environmental Management encourages you to voluntarily consider pollution prevention practices and alternatives at your facility. Pollution Prevention may assist you in complying with effluent limitations, and possibly reduce or eliminate monitoring requirements.

If you have questions regarding this permit or monitoring requirements, please contact Brian Marshall by email at bmarshall@adem.alabama.gov or by phone at (334) 271-7895.

Scott Kamsey, Chief

Industrial Section Industrial/Municipal Branch

Water Division

Enclosure:

Draft Permit

pc via website:

Montgomery Field Office

EPA Region IV

U.S. Fish & Wildlife Service AL Historical Commission

Advisory Council on Historic Preservation

Department of Conservation and Natural Resources

**Birmingham Branch** 

(205) 941-1603 (FAX)

110 Vulcan Road

(205) 942-6168





## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

FACILITY LOCATION: 835 COCHRAN CAUSEWAY, HIGHWAY 90/98 BLAKELY ISLAND

MOBILE, AL 36610

PERMIT NUMBER: AL0003565

RECEIVING WATERS: DSN001 - DSN009: MOBILE RIVER

In accordance with and subject to the provisions of the Federal Water Pollution Control Act, as amended, 33 U.S.C. \$\infty\1251-1388\$ (the "FWPCA"), the Alabama Water Pollution Control Act, as amended, Code of Alabama 1975, \$\infty\22-22-1\$ to 22-22-14 (the "AWPCA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, \$\infty\22-22A-1\$ to 22-22A-17, and rules and regulations adopted thereunder, and subject further to the terms and conditions set forth in this permit, the Permittee is hereby authorized to discharge into the above-named receiving waters.

**ISSUANCE DATE:** 

EFFECTIVE DATE:

**EXPIRATION DATE:** 

**Draft** 

Alabama Department of Environmental Management

## INDUSTRIAL SECTION NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT

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#### PART I DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

#### A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the permittee is authorized to discharge from the following point source(s) outfall(s), described more fully in the permittee's application:

DSN001S - DSN009S: Storm water runoff associated with asphalt processing activities 3/4/5/

Such discharge shall be limited and monitored by the permittee as specified below:

		LIMITATIONS	_	Manabla	MONITORING REQUIREMENTS 1/			
EFFLUENT CHARACTERISTIC BOD, 5-Day (20 Deg. C)	Monthly Average	<u>Daily</u> <u>Maximum</u> -	<u>Daily</u> <u>Minimum</u> -	Monthly Average -	<u>Daily</u> <u>Maximum</u> REPORT mg/l	Measurement Frequency 2/ Twice per Year	Sample Type Grab	Seasonal -
pH	-	-	REPORT S.U.	-	REPORT S.U.	Twice per Year	Grab	-
Solids, Total Suspended	-	-	-	-	REPORT mg/l	Twice per Year	Grab	-
Oil & Grease	-	-	-	-	15.0 mg/l	Twice per Year	Grab	-
Toluene	-	-	-	-	8723 ug/l	Twice per Year	Grab	-
Benzene	-	-	-	-	15.4 ug/l	Twice per Year	Grab	-
Ethylbenzene	-	-	-	-	1244 ug/l	Twice per Year	Grab	-
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Twice per Year	Estimate 4/	-

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ See Part IV.B for Stormwater Measurement and Sampling Requirements.
- 5/ Monitoring requirements only apply to outfalls DSN002S, DSN003S, DSN007S, & DSN009S.

DSN001S - DSN009S (continued): Storm water runoff associated with asphalt processing activities 3/4/

Such discharge shall be limited and monitored by the permittee as specified below:

	DISCHARGE	LIMITATIONS	MONITORING REQUIREMENTS 1/					
EFFI HOUT CHARACTERISTIC	Monthly	Daily	Daily	Monthly	Daily	Measurement		
EFFLUENT CHARACTERISTIC	<u>Average</u>	<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>	Frequency 2/	Sample Type	<u>Seasonal</u>
Solids, Total Dissolved	-	-	-	-	REPORT mg/l	Twice per Year	Grab	-
Chemical Oxygen Demand (COD)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	-
Xylene	-	-	-	-	REPORT ug/l	Twice per Year	Grab	-

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ Monitoring requirements only apply to outfalls DSN002S, DSN003S, DSN007S, & DSN009S.

DSN003A: Wastewater resulting from boiler floor drains, boiler condensate, non-contact cooling water and hydrostatic test water. 3/

Such discharge shall be limited and monitored by the permittee as specified below:

	DISCHARGE	LIMITATIONS	<u>s</u>		MONITORING REQUIREMENTS 1/					
EFFLUENT CHARACTERISTIC Temperature, Water Deg. Fahrenheit	Monthly Average	<u>Daily</u> <u>Maximum</u> -	<u>Daily</u> <u>Minimum</u> -	Monthly Average	<u>Daily</u> <u>Maximum</u> 90.0 F	Measurement Frequency 2/ Monthly	Sample Type Grab	Seasonal -		
BOD, 5-Day (20 Deg. C)	-	-	-	-	REPORT mg/l	Monthly	Composite	-		
pН	-	-	6.0 S.U.	-	8.5 S.U.	Monthly	Grab	-		
Oil & Grease	-	-	-	-	15.0 mg/l	Monthly	Grab	-		
Color (ADMI Units)	-	-	-	-	REPORT ADMI	Monthly	Grab	-		
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Monthly	Estimate	-		
Chlorine, Total Residual	-	-	-	-	1.0 mg/l	Monthly	Grab	-		
Chemical Oxygen Demand (COD)	-	-	-	-	REPORT mg/l	Monthly	Composite	-		

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

DSN004A: Hydrostatic test water 3/4/

Such discharge shall be limited and monitored by the permittee as specified below:

		LIMITATIONS	_				EQUIREMENTS 1/	:
EFFLUENT CHARACTERISTIC pH	Monthly Average -	<u>Daily</u> <u>Maximum</u> -	<u>Daily</u> <u>Minimum</u> REPORT S.U.	Monthly Average	<u>Daily</u> <u>Maximum</u> REPORT S.U.	Measurement Frequency 2/ Once/Discharge	<u>Sample Type</u> Grab	<u>Seasonal</u> -
Oil & Grease	-	-	-	-	15.0 mg/l	Once/Discharge	Grab	-
Color (ADMI Units)	-	-	-	-	REPORT ADMI	Once/Discharge	Grab	-
Toluene	-	-	-	-	REPORT ug/l	Once/Discharge	Grab	-
Benzene	-	-	-	-	REPORT ug/l	Once/Discharge	Grab	-
Ethylbenzene	-	-	-	-	REPORT ug/l	Once/Discharge	Grab	-
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Once/Discharge	Estimate	-
Chlorine, Total Residual	-	-	-	-	1.0 mg/l	Once/Discharge	Grab	-

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ To be tested during a non-storm event.

#### NPDES PERMIT NUMBER AL0003565 PART I Page 5 of 26

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the permittee is authorized to discharge from the following point source(s) outfall(s), described more fully in the permittee's application:

DSN004A (continued): Hydrostatic test water 3/4/

Such discharge shall be limited and monitored by the permittee as specified below:

	<u>DISCHARGE LIMITATIONS</u>						MONITORING REQUIREMENTS 1/			
	<b>Monthly</b>	<u>Daily</u>	<u>Daily</u>	<b>Monthly</b>	<u>Daily</u>	Measurement				
EFFLUENT CHARACTERISTIC	Average	<u>Maximum</u>	<u>Minimum</u>	Average	Maximum	Frequency 2/	Sample Type	Seasonal		
Xylene	-	-	-	-	REPORT	Once/Discharge	Grab	-		
					ug/l					

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ To be tested during a non-storm event.

#### NPDES PERMIT NUMBER AL0003565 PART I Page 6 of 26

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the permittee is authorized to discharge from the following point source(s) outfall(s), described more fully in the permittee's application:

DSN007A: Hydrostatic test water. 3/4/

Such discharge shall be limited and monitored by the permittee as specified below:

such discharge shall be fillified and monitored by the permittee as specified below.													
	DISCHARGE LIMITATIONS MC												
EFFLUENT CHARACTERISTIC	Monthly Average	<u>Daily</u> <u>Maximum</u>	<u>Daily</u> <u>Minimum</u>	Monthly Average	<u>Daily</u> <u>Maximum</u>	Measurement Frequency 2/	Sample Type	Seasonal					
pH	-	-	REPORT S.U.	-	REPORT S.U.	Once/Discharge	Grab	-					
Oil & Grease	-	-	-	-	15.0 mg/l	Once/Discharge	Grab	-					
Color (ADMI Units)	-	-	-	-	REPORT ADMI	Once/Discharge	Grab	-					
Toluene	-	-	-	-	8723 ug/l	Once/Discharge	Grab	-					
Benzene	-	-	-	-	15.4 ug/l	Once/Discharge	Grab	-					
Ethylbenzene	-	-	-	-	1244 ug/l	Once/Discharge	Grab	-					
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Once/Discharge	Estimate	-					
Chlorine, Total Residual	-	-	-	-	1.0 mg/l	Once/Discharge	Grab	-					

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ To be tested during a non-storm event.

DSN007A (continued): Hydrostatic test water. 3/4/

Such discharge shall be limited and monitored by the permittee as specified below:

	DISCHARGE LIMITATIONS							
	<b>Monthly</b>	<b>Daily</b>	<b>Daily</b>	<b>Monthly</b>	<u>Daily</u>	<u>Measurement</u>		
EFFLUENT CHARACTERISTIC	<u>Average</u>	<u>Maximum</u>	<u>Minimum</u>	<b>Average</b>	<u>Maximum</u>	Frequency 2/	Sample Type	Seasonal
Xylene	-	-	-	-	REPORT	Once/Discharge	Grab	-
					ug/l			

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ To be tested during a non-storm event.

#### B. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

#### 1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge and shall be in accordance with the provisions of this permit.

#### Test Procedures

For the purpose of reporting and compliance, permittees shall use one of the following procedures:

- a. For parameters with an EPA established Minimum Level (ML), report the measured value if the analytical result is at or above the ML and report "0" for values below the ML. Test procedures for the analysis of pollutants shall conform to 40 CFR Part 136 and guidelines published pursuant to Section 304(h) of the FWPCA, 33 U.S.C. Section 1314(h). If more than one method for analysis of a substance is approved for use, a method having a minimum level lower than the permit limit shall be used. If the minimum level of all methods is higher than the permit limit, the method having the lowest minimum level shall be used and a report of less than the minimum level shall be reported as zero and will constitute compliance; however, should EPA approve a method with a lower minimum level during the term of this permit the permittee shall use the newly approved method.
- b. For pollutants parameters without an established ML, an interim ML may be utilized. The interim ML shall be calculated as 3.18 times the Method Detection Level (MDL) calculated pursuant to 40 CFR Part 136, Appendix B.

Permittees may develop an effluent matrix-specific ML, where an effluent matrix prevents attainment of the established ML. However, a matrix specific ML shall be based upon proper laboratory method and technique. Matrix-specific MLs must be approved by the Department, and may be developed by the permittee during permit issuance, reissuance, modification, or during compliance schedule.

In either case the measured value should be reported if the analytical result is at or above the ML and "0" reported for values below the ML.

c. For parameters without an EPA established ML, interim ML, or matrix-specific ML, a report of less than the detection limit shall constitute compliance if the detection limit of all analytical methods is higher than the permit limit using the most sensitive EPA approved method. For the purpose of calculating a monthly average, "0" shall be used for values reported less than the detection limit.

The Minimum Level utilized for procedures A and B above shall be reported on the permittee's DMR. When an EPA approved test procedure for analysis of a pollutant does not exist, the Director shall approve the procedure to be used.

#### 3. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The facility name and location, point source number, date, time and exact place of sampling;
- b. The name(s) of person(s) who obtained the samples or measurements;
- The dates and times the analyses were performed;
- The name(s) of the person(s) who performed the analyses;
- e. The analytical techniques or methods used, including source of method and method number; and
- f. The results of all required analyses.

#### Records Retention and Production

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the above reports or the application for this permit, for a period of at least three years from the date of the sample measurement, report or application. This period may be extended by request of the Director at any time. If litigation or other enforcement action, under the AWPCA and/or the FWPCA, is ongoing which involves any of the above records, the records shall be kept until the litigation is resolved. Upon the written request of the Director or his designee, the permittee shall provide the Director with a copy of any record required to be retained by this paragraph. Copies of these records shall not be submitted unless requested.

All records required to be kept for a period of three years shall be kept at the permitted facility or an alternate location approved by the Department in writing and shall be available for inspection.

5. Monitoring Equipment and Instrumentation

All equipment and instrumentation used to determine compliance with the requirements of this permit shall be installed, maintained, and calibrated in accordance with the manufacturer's instructions or, in the absence of manufacturer's instructions, in accordance with accepted practices. The permittee shall develop and maintain quality assurance procedures to ensure proper operation and maintenance of all equipment and instrumentation. The quality assurance procedures shall include the proper use, maintenance, and installation, when appropriate, of monitoring equipment at the plant site.

#### C. DISCHARGE REPORTING REQUIREMENTS

- 1. Reporting of Monitoring Requirements
  - a. The permittee shall conduct the required monitoring in accordance with the following schedule:

MONITORING REQUIRED MORE FREQUENTLY THAN MONTHLY AND MONTHLY shall be conducted during the first full month following the effective date of coverage under this permit and every month thereafter.

QUARTERLY MONITORING shall be conducted at least once during each calendar quarter. Calendar quarters are the periods of January through March, April through June, July through September, and October through December. The permittee shall conduct the quarterly monitoring during the first complete calendar quarter following the effective date of this permit and is then required to monitor once during each quarter thereafter. Quarterly monitoring may be done anytime during the quarter, unless restricted elsewhere in this permit, but it should be submitted with the last DMR due for the quarter, i.e., (March, June, September and December DMR's).

SEMIANNUAL MONITORING shall be conducted at least once during the period of January through June and at least once during the period of July through December. The permittee shall conduct the semiannual monitoring during the first complete calendar semiannual period following the effective date of this permit and is then required to monitor once during each semiannual period thereafter. Semiannual monitoring may be done anytime during the semiannual period, unless restricted elsewhere in this permit, but it should be submitted with the last DMR for the month of the semiannual period, i.e. (June and December DMR's).

**ANNUAL MONITORING** shall be conducted at least once during the period of January through December. The permittee shall conduct the annual monitoring during the first complete calendar annual period following the effective date of this permit and is then required to monitor once during each annual period thereafter. Annual monitoring may be done anytime during the year, unless restricted elsewhere in this permit, but it should be submitted with the December DMR.

b. The permittee shall submit discharge monitoring reports (DMRs) on the forms provided by the Department and in accordance with the following schedule:

REPORTS OF MORE FREQUENTLY THAN MONTHLY AND MONTHLY TESTING shall be submitted on a monthly basis. The first report is due on the 28th day of (MONTH, YEAR). The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

REPORTS OF QUARTERLY TESTING shall be submitted on a quarterly basis. The first report is due on the 28th day of [Month, Year]. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

REPORTS OF SEMIANNUAL TESTING shall be submitted on a semiannual basis. The reports are due on the 28th day of JANUARY and the 28th day of JULY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

REPORTS OF ANNUAL TESTING shall be submitted on an annual basis. The first report is due on the 28th day of JANUARY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

- c. Except as allowed by Provision J.C.I.c.(1) or (2), the permittee shall submit all Discharge Monitoring Reports (DMRs) required by Provision I.C.I.b by utilizing the Department's web-based Electronic Environmental (E2) Reporting System.
  - (1) If the permittee is unable to complete the electronic submittal of DMR data due to technical problems originating with the Department's E2 Reporting system (this could include entry/submittal issues with an entire set of DMRs or individual parameters), the permittee is not relieved of their obligation to submit DMR data to the Department by the date specified in Provision I.C.1.b, unless otherwise directed by the Department.

If the E2 Reporting System is down on the 28th day of the month in which the DMR is due or is down for an extended period of time, as determined by the Department, when a DMR is required to be submitted, the permittee may submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include faxing, e-mailing, mailing, or hand-delivery of data such that they are received by the required reporting date. Within 5 calendar days of the E2 Reporting System resuming operation, the permittee shall enter the data into the E2 Reporting System, unless an alternate timeframe is approved by the Department. An attachment should be included with the E2 DMR submittal verifying the original submittal date (date of the fax, copy of the dated e-mail, or hand-delivery stamped date), if applicable.

The permittee may submit a request to the Department for a temporary electronic reporting waiver for DMR submittals. The waiver request should include the permit number; permittee name; facility/site name; facility address; name, address, and contact information for the responsible official or duly authorized representative; a detailed statement regarding the basis for requesting such a waiver; and the duration for which the waiver is requested. Approved electronic reporting waivers are not transferrable.

Permittees with an approved electronic reporting waiver for DMRs may submit hard copy DMRs for the period that the approved electronic reporting waiver request is effective. The permittee shall submit the Department-approved DMR forms to the address listed in Provision I.C.1.e.

- (3) If a permittee is allowed to submit a hard copy DMR, the DMR must be legible and bear an original signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this permit.
- (4) If the permittee, using approved analytical methods as specified in Provision I.B.2, monitors any discharge from a point source for a limited substance identified in Provision I.A. of this permit more frequently than required by this permit, the results of such monitoring shall be included in the calculation and reporting of values on the DMR and the increased frequency shall be indicated on the DMR.
- In the event no discharge from a point source identified in Provision I.A. of this permit and described more fully in the permittee's application occurs during a monitoring period, the permittee shall report "No Discharge" for such period on the appropriate DMR.
- d. All reports and forms required to be submitted by this permit, the AWPCA and the Department's Rules, shall be electronically signed (or, if allowed by the Department, traditionally signed) by a "responsible official" of the permittee as defined in ADEM Administrative Code Rule 335-6-5-.14 or a "duly authorized representative" of such official as defined in ADEM Administrative Code Rule 335-6-5-.14 and shall bear the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

e. Discharge Monitoring Reports required by this permit, the AWPCA, and the Department's Rules that are being submitted in hard copy shall be addressed to:

Alabama Department of Environmental Management
Permits and Services Division
Environmental Data Section
Post Office Box 301463
Montgomery, Alabama 36130-1463

Certified and Registered Mail containing Discharge Monitoring Reports shall be addressed to:

Alabama Department of Environmental Management
Permits and Services Division
Environmental Data Section
1400 Coliseum Boulevard
Montgomery, Alabama 36110-2400

f. All other correspondence and reports required to be submitted by this permit, the AWPCA, and the Department's Rules shall be addressed to:

## Water Division Post Office Box 301463 Montgomery, Alabama 36130-1463

Certified and Registered Mail shall be addressed to:

# Alabama Department of Environmental Management Water Division 1400 Coliseum Boulevard Montgomery, Alabama 36110-2400

g. If this permit is a re-issuance, then the permittee shall continue to submit DMRs in accordance with the requirements of their previous permit until such time as DMRs are due as discussed in Part I.C.1.b above.

#### 2. Noncompliance Notification

a. 24-Hour Noncompliance Reporting

The permittee shall report to the Director, within 24-hours of becoming aware of the noncompliance, any noncompliance which may endanger health or the environment. This shall include but is not limited to the following circumstances:

- (1) does not comply with any daily minimum or maximum discharge limitation for an effluent characteristic specified in Provision I. A. of this permit which is denoted by an "(X)";
- (2) threatens human health or welfare, fish or aquatic life, or water quality standards;
- does not comply with an applicable toxic pollutant effluent standard or prohibition established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a);
- (4) contains a quantity of a hazardous substance which has been determined may be harmful to public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. Section 1321(b)(4);
- (5) exceeds any discharge limitation for an effluent characteristic as a result of an unanticipated bypass or upset; and
- (6) is an unpermitted direct or indirect discharge of a pollutant to a water of the state (unpermitted discharges properly reported to the Department under any other requirement are not required to be reported under this provision).

The permittee shall orally report the occurrence and circumstances of such discharge to the Director within 24-hours after the permittee becomes aware of the occurrence of such discharge. In addition to the oral report, the permittee shall submit to the Director or Designee a written report as provided in Part I.C.2.c no later than five (5) days after becoming aware of the occurrence of such discharge.

- b. If for any reason, the permittee's discharge does not comply with any limitation of this permit, the permittee shall submit to the Director or Designee a written report as provided in Part I.C.2.c below, such report shall be submitted with the next Discharge Monitoring Report required to be submitted by Part I.C.1 of this permit after becoming aware of the occurrence of such noncompliance.
- c. Any written report required to be submitted to the Director or Designee by Part I.C.2 a. or b. shall be submitted using a Noncompliance Notification Form (ADEM Form 421) available on the Department's website (<a href="http://adem.alabama.gov/DeptForms/Form421.pdf">http://adem.alabama.gov/DeptForms/Form421.pdf</a>) and include the following information:
  - (1) A description of the discharge and cause of noncompliance;
  - (2) The period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue; and
  - (3) A description of the steps taken and/or being taken to reduce or eliminate the noncomplying discharge and to prevent its recurrence.

#### D. OTHER REPORTING AND NOTIFICATION REQUIREMENTS

#### Anticipated Noncompliance

The permittee shall give the Director written advance notice of any planned changes or other circumstances regarding a facility which may result in noncompliance with permit requirements.

#### Termination of Discharge

The permittee shall notify the Director, in writing, when all discharges from any point source(s) identified in Provision I. A. of this permit have permanently ceased. This notification shall serve as sufficient cause for instituting procedures for modification or termination of the permit.

#### 3. Updating Information

- a. The permittee shall inform the Director of any change in the permittee's mailing address, telephone number or in the permittee's designation of a facility contact or office having the authority and responsibility to prevent and abate violations of the AWPCA, the Department's Rules, and the terms and conditions of this permit, in writing, no later than ten (10) days after such change. Upon request of the Director or his designee, the permittee shall furnish the Director with an update of any information provided in the permit application.
- b. If the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information with a written explanation for the mistake and/or omission.

#### Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable time, any information which the Director or his designee may request to determine whether cause exists for modifying, revoking and re-issuing, suspending, or terminating this permit, in whole or in part, or to determine compliance with this permit.

#### Cooling Water and Boiler Water Additives

- a. The permittee shall notify the Director in writing not later than thirty (30) days prior to instituting the use of any biocide corrosion inhibitor or chemical additive in a cooling or boiler system, not identified in the application for this permit, from which discharge is allowed by this permit. Notification is not required for additives that do not contain a heavy metal(s) as an active ingredient and that pass through a wastewater treatment system prior to discharge nor is notification required for additives that should not reasonably be expected to cause the cooling water or boiler water to exhibit toxicity as determined by analysis of manufacturer's data or testing by the permittee. Such notification shall include:
  - (1) name and general composition of biocide or chemical;
  - 96-hour median tolerance limit data for organisms representative of the biota of the waterway into which the discharge will ultimately reach;
  - quantities to be used;
  - (3) frequencies of use;
  - (4) proposed discharge concentrations; and
  - (6) EPA registration number, if applicable.
- b. The use of a biocide or additive containing tributyl tin, tributyl tin oxide, zinc, chromium or related compounds in cooling or boiler system(s), from which a discharge regulated by this permit occurs, is prohibited except as exempted below. The use of a biocide or additive containing zinc, chromium or related compounds may be used in special circumstances if (1) the permit contains limits for these substances, or (2) the applicant demonstrates during the application process that the use of zinc, chromium or related compounds as a biocide or additive will not pose a reasonable potential to violate the applicable State water quality standards for these substances. The use of any additive, not identified in this permit or in the application for this permit or not exempted from notification under this permit is prohibited, prior to a determination by the Department that permit modification to control discharge of the additive is not required or prior to issuance of a permit modification controlling discharge of the additive.

#### Permit Issued Based On Estimated Characteristics

- a. If this permit was issued based on estimates of the characteristics of a process discharge reported on an EPA NPDES Application Form 2D (EPA Form 3510-2D), the permittee shall complete and submit an EPA NPDES Application Form 2C (EPA Form 3510-2C) no later than two years after the date that discharge begins. Sampling required for completion of the Form 2C shall occur when a discharge(s) from the process(s) causing the new or increased discharge is occurring. If this permit was issued based on estimates concerning the composition of a stormwater discharge(s), the permittee shall perform the sampling required by EPA NPDES Application Form 2F (EPA Form 3510-2F) no later than one year after the industrial activity generating the stormwater discharge has been fully initiated.
- b. This permit shall be reopened if required to address any new information resulting from the completion and submittal of the Form 2C and or 2F.

#### E. SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the discharge limitations specified in Provision I. A. in accordance with the following schedule:

#### COMPLIANCE SHALL BE ATTAINED ON THE EFFECTIVE DATE OF THIS PERMIT

No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

#### PART II OTHER REQUIREMENTS, RESPONSIBILITIES, AND DUTIES

#### A. OPERATIONAL AND MANAGEMENT REQUIREMENTS

#### 1. Facilities Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities only when necessary to achieve compliance with the conditions of the permit.

#### 2. Best Management Practices

- Dilution water shall not be added to achieve compliance with discharge limitations except when the Director or his
  designee has granted prior written authorization for dilution to meet water quality requirements.
- b. The permittee shall prepare, implement, and maintain a Spill Prevention, Control and Countermeasures (SPCC) Plan in accordance with 40 C.F.R. Section 112 if required thereby.
- c. The permittee shall prepare, submit for approval and implement a Best Management Practices (BMP) Plan for containment of any or all process liquids or solids, in a manner such that these materials do not present a significant potential for discharge, if so required by the Director or his designee. When submitted and approved, the BMP Plan shall become a part of this permit and all requirements of the BMP Plan shall become requirements of this permit.

#### Spill Prevention, Control, and Management

The permittee shall provide spill prevention, control, and/or management sufficient to prevent any spills of pollutants from entering a water of the state or a publicly or privately owned treatment works. Any containment system used to implement this requirement shall be constructed of materials compatible with the substance(s) contained and which shall prevent the contamination of groundwater and such containment system shall be capable of retaining a volume equal to 110 percent of the capacity of the largest tank for which containment is provided.

#### B. OTHER RESPONSIBILITIES

#### 1. Duty to Mitigate Adverse Impacts

The permittee shall promptly take all reasonable steps to mitigate and minimize or prevent any adverse impact on human health or the environment resulting from noncompliance with any discharge limitation specified in Provision I. A. of this permit, including such accelerated or additional monitoring of the discharge and/or the receiving waterbody as necessary to determine the nature and impact of the noncomplying discharge.

#### 2. Right of Entry and Inspection

The permittee shall allow the Director, or an authorized representative, upon the presentation of proper credentials and other documents as may be required by law to:

- enter upon the permittee's premises where a regulated facility or activity or point source is located or conducted, or where records must be kept under the conditions of the permit;
- have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the permit; and
- d. sample or monitor, for the purposes of assuring permit compliance or as otherwise authorized by the AWPCA, any substances or parameters at any location.

#### C. BYPASS AND UPSET

#### 1. Bypass

- Any bypass is prohibited except as provided in b. and c. below:
- A bypass is not prohibited if:
  - (1) It does not cause any discharge limitation specified in Provision I. A. of this permit to be exceeded;

- (2) It enters the same receiving stream as the permitted outfall; and
- (3) It is necessary for essential maintenance of a treatment or control facility or system to assure efficient operation of such facility or system.
- c. A bypass is not prohibited and need not meet the discharge limitations specified in Provision I. A. of this permit if:
  - (1) It is unavoidable to prevent loss of life, personal injury, or severe property damage;
  - There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime (this condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance); and
  - The permittee submits a written request for authorization to bypass to the Director at least ten (10) days prior to the anticipated bypass (if possible), the permittee is granted such authorization, and the permittee complies with any conditions imposed by the Director to minimize any adverse impact on human health or the environment resulting from the bypass.
- d. The permittee has the burden of establishing that each of the conditions of Provision II.C.1.b. or c. have been met to qualify for an exception to the general prohibition against bypassing contained in a. and an exemption, where applicable, from the discharge limitations specified in Provision I. A. of this permit.

#### 2. Upset

- a. A discharge which results from an upset need not meet the discharge limitations specified in Provision I. A. of this permit if:
  - (1) No later than 24-hours after becoming aware of the occurrence of the upset, the permittee orally reports the occurrence and circumstances of the upset to the Director or his designee; and
  - No later than five (5) days after becoming aware of the occurrence of the upset, the permittee furnishes the Director with evidence, including properly signed, contemporaneous operating logs, or other relevant evidence, demonstrating that (i) an upset occurred; (ii) the permittee can identify the specific cause(s) of the upset; (iii) the permittee's facility was being properly operated at the time of the upset; and (iv) the permittee promptly took all reasonable steps to minimize any adverse impact on human health or the environment resulting from the upset.
- b. The permittee has the burden of establishing that each of the conditions of Provision II. C.2.a. of this permit have been met to qualify for an exemption from the discharge limitations specified in Provision I.A. of this permit.

#### D. DUTY TO COMPLY WITH PERMIT, RULES, AND STATUTES

- 1. Duty to Comply
  - a. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the AWPCA and the FWPCA and is grounds for enforcement action, for permit termination, revocation and reissuance, suspension, modification; or denial of a permit renewal application.
  - b. The necessity to halt or reduce production or other activities in order to maintain compliance with the conditions of the permit shall not be a defense for a permittee in an enforcement action.
  - c. The discharge of a pollutant from a source not specifically identified in the permit application for this permit and not specifically included in the description of an outfall in this permit is not authorized and shall constitute noncompliance with this permit.
  - d. The permittee shall take all reasonable steps, including cessation of production or other activities, to minimize or prevent any violation of this permit or to minimize or prevent any adverse impact of any permit violation.
  - e. Nothing in this permit shall be construed to preclude and negate the permittee's responsibility or liability to apply for, obtain, or comply with other ADEM, Federal, State, or Local Government permits, certifications, licenses, or other approvals.

#### 2. Removed Substances

Solids, sludges, filter backwash, or any other pollutant or other waste removed in the course of treatment or control of wastewaters shall be disposed of in a manner that complies with all applicable Department Rules.

#### 3. Loss or Failure of Treatment Facilities

Upon the loss or failure of any treatment facilities, including but not limited to the loss or failure of the primary source of power of the treatment facility, the permittee shall, where necessary to maintain compliance with the discharge limitations specified in Provision I. A. of this permit, or any other terms or conditions of this permit, cease, reduce, or otherwise control production and/or all discharges until treatment is restored. If control of discharge during loss or failure of the primary source of power is to be accomplished by means of alternate power sources, standby generators, or retention of inadequately treated effluent, the permittee must furnish to the Director within six months a certification that such control mechanisms have been installed.

#### Compliance with Statutes and Rules

- a. This permit has been issued under ADEM Administrative Code, Chapter 335-6-6. All provisions of this chapter, that are applicable to this permit, are hereby made a part of this permit. A copy of this chapter may be obtained for a small charge from the Office of General Counsel, Alabama Department of Environmental Management, 1400 Coliseum Blvd., Montgomery, AL 36130.
- b. This permit does not authorize the noncompliance with or violation of any Laws of the State of Alabama or the United States of America or any regulations or rules implementing such laws. FWPCA, 33 U.S.C. Section 1319, and Code of Alabama 1975, Section 22-22-14.

#### E. PERMIT TRANSFER, MODIFICATION, SUSPENSION, REVOCATION, AND REISSUANCE

- Duty to Reapply or Notify of Intent to Cease Discharge
  - a. If the permittee intends to continue to discharge beyond the expiration date of this permit, the permittee shall file a complete permit application for reissuance of this permit at least 180 days prior to its expiration. If the permittee does not intend to continue discharge beyond the expiration of this permit, the permittee shall submit written notification of this intent which shall be signed by an individual meeting the signatory requirements for a permit application as set forth in ADEM Administrative Code Rule 335-6-6-0.99.
  - b. Failure of the permittee to apply for reissuance at least 180 days prior to permit expiration will void the automatic continuation of the expiring permit provided by ADEM Administrative Code Rule 335-6-6-.06 and should the permit not be reissued for any reason any discharge after expiration of this permit will be an unpermitted discharge.

#### Change in Discharge

- a. The permittee shall apply for a permit modification at least 180 days in advance of any facility expansion, production increase, process change, or other action that could result in the discharge of additional pollutants or increase the quantity of a discharged pollutant such that existing permit limitations would be exceeded or that could result in an additional discharge point. This requirement applies to pollutants that are or that are not subject to discharge limitations in this permit. No new or increased discharge may begin until the Director has authorized it by issuance of a permit modification or a reissued permit.
- b. The permittee shall notify the Director as soon as it is known or there is reason to believe:
  - That any activity has occurred or will occur which would result in the discharge on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
    - (a) one hundred micrograms per liter;
    - (b) two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4,6-dini-trophenol; and one milligram per liter for antimony;
    - (c) five times the maximum concentration value reported for that pollutant in the permit application; or
  - (2) That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
    - (a) five hundred micrograms per liter;
    - (b) one milligram per liter for antimony;
    - (c) ten times the maximum concentration value reported for that pollutant in the permit application.

#### 3. Transfer of Permit

This permit may not be transferred or the name of the permittee changed without notice to the Director and subsequent modification or revocation and reissuance of the permit to identify the new permittee and to incorporate any other changes as may be required under the FWPCA or AWPCA. In the case of a change in name, ownership or control of the permittee's premises only, a request for permit modification in a format acceptable to the Director is required at least 30 days prior to the change. In the case of a change in name, ownership or control of the permittee's premises accompanied by a change or proposed change in effluent characteristics, a complete permit application is required to be submitted to the Director at least 180 days prior to the change. Whenever the Director is notified of a change in name, ownership or control, he may decide not to modify the existing permit and require the submission of a new permit application.

#### 4. Permit Modification and Revocation

- a. This permit may be modified or revoked and reissued, in whole or in part, during its term for cause, including but not limited to, the following:
  - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to revoke and reissue this permit instead of terminating the permit;
  - (2) If a request to transfer this permit has been received, the Director may decide to revoke and reissue or to modify the permit; or
  - (3) If modification or revocation and reissuance is requested by the permittee and cause exists, the Director may grant the request.
- b. This permit may be modified during its term for cause, including but not limited to, the following:
  - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to modify this permit instead of terminating this permit;
  - There are material and substantial alterations or additions to the facility or activity generating wastewater which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;
  - (3) The Director has received new information that was not available at the time of permit issuance and that would have justified the application of different permit conditions at the time of issuance;
  - A new or revised requirement(s) of any applicable standard or limitation is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA;
  - (5) Errors in calculation of discharge limitations or typographical or clerical errors were made;
  - (6) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, when the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued;
  - To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, permits may be modified to change compliance schedules;
  - (8) To agree with a granted variance under 30l(c), 30l(g), 30l(h), 30l(k), or 3l6(a) of the FWPCA or for fundamentally different factors;
  - (9) To incorporate an applicable 307(a) FWPCA toxic effluent standard or prohibition;
  - (10) When required by the reopener conditions in this permit;
  - (11) When required under 40 CFR 403.8(e) (compliance schedule for development of pretreatment program);
  - (12) Upon failure of the state to notify, as required by Section 402(b)(3) of the FWPCA, another state whose waters may be affected by a discharge permitted by this permit;
  - (13) When required to correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions; or
  - (14) When requested by the permittee and the Director determines that the modification has cause and will not result in a violation of federal or state law, regulations or rules.

#### Permit Termination

This permit may be terminated during its term for cause, including but not limited to, the following:

- a. Violation of any term or condition of this permit;
- b. The permittee's misrepresentation or failure to disclose fully all relevant facts in the permit application or during the permit issuance process or the permittee's misrepresentation of any relevant facts at any time;
- c. Materially false or inaccurate statements or information in the permit application or the permit;
- A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge;
- e. The permittee's discharge threatens human life or welfare or the maintenance of water quality standards;
- Permanent closure of the facility generating the wastewater permitted to be discharged by this permit or permanent cessation of wastewater discharge;
- g. New or revised requirements of any applicable standard or limitation that is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA that the Director determines cannot be complied with by the permittee; or
- h. Any other cause allowed by the ADEM Administrative Code, Chapter 335-6-6.

#### Permit Suspension

This permit may be suspended during its term for noncompliance until the permittee has taken action(s) necessary to achieve compliance.

7. Request for Permit Action Does Not Stay Any Permit Requirement

The filing of a request by the permittee for modification, suspension or revocation of this permit, in whole or in part, does not stay any permit term or condition.

#### F. COMPLIANCE WITH TOXIC POLLUTANT STANDARD OR PROHIBITION

If any applicable effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a), for a toxic pollutant discharged by the permittee and such standard or prohibition is more stringent than any discharge limitation on the pollutant specified in Provision I. A. of this permit, or controls a pollutant not limited in Provision I. A. of this permit, this permit shall be modified to conform to the toxic pollutant effluent standard or prohibition and the permittee shall be notified of such modification. If this permit has not been modified to conform to the toxic pollutant effluent standard or prohibition before the effective date of such standard or prohibition, the permittee shall attain compliance with the requirements of the standard or prohibition within the time period required by the standard or prohibition and shall continue to comply with the standard or prohibition until this permit is modified or reissued.

#### G. DISCHARGE OF WASTEWATER GENERATED BY OTHERS

The discharge of wastewater, generated by any process, facility, or by any other means not under the operational control of the permittee or not identified in the application for this permit or not identified specifically in the description of an outfall in this permit is not authorized by this permit.

#### PART III OTHER PERMIT CONDITIONS

#### A. CIVIL AND CRIMINAL LIABILITY

#### 1. Tampering

Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained or performed under the permit shall, upon conviction, be subject to penalties as provided by the AWPCA.

#### 2. False Statements

Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be subject to penalties as provided by the AWPCA.

#### Permit Enforcement

- a. Any NPDES permit issued or reissued by the Department is a permit for the purpose of the AWPCA and the FWPCA and as such any terms, conditions, or limitations of the permit are enforceable under state and federal law.
- b. Any person required to have a NPDES permit pursuant to ADEM Administrative Code Chapter 335-6-6 and who discharges pollutants without said permit, who violates the conditions of said permit, who discharges pollutants in a manner not authorized by the permit, or who violates applicable orders of the Department or any applicable rule or standard of the Department, is subject to any one or combination of the following enforcement actions under applicable state statutes.
  - (1) An administrative order requiring abatement, compliance, mitigation, cessation, clean-up, and/or penalties;
  - (2) An action for damages;
  - (3) An action for injunctive relief; or
  - (4) An action for penalties.
- c. If the permittee is not in compliance with the conditions of an expiring or expired permit the Director may choose to do any or all of the following provided the permittee has made a timely and complete application for reissuance of the permit:
  - (1) initiate enforcement action based upon the permit which has been continued;
  - issue a notice of intent to deny the permit reissuance. If the permit is denied, the owner or operator would then be required to cease the activities authorized by the continued permit or be subject to enforcement action for operating without a permit;
  - (3) reissue the new permit with appropriate conditions; or
  - (4) take other actions authorized by these rules and AWPCA.

#### 4. Relief from Liability

Except as provided in Provision II.C.1 (Bypass) and Provision II.C.2 (Upset), nothing in this permit shall be construed to relieve the permittee of civil or criminal liability under the AWPCA or FWPCA for noncompliance with any term or condition of this permit.

#### B. OIL AND HAZARDOUS SUBSTANCE LIABILITY

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject under Section 311 of the FWPCA, 33 U.S.C. Section 1321.

#### C. PROPERTY AND OTHER RIGHTS

This permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to persons or property or invasion of other private rights, trespass, or any infringement of federal, state, or local laws or regulations, nor does it authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any waters of the state or of the United States.

#### D. AVAILABILITY OF REPORTS

Except for data determined to be confidential under <u>Code of Alabama</u> 1975, Section 22-22-9(c), all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department. Effluent data shall not be considered confidential.

#### E. EXPIRATION OF PERMITS FOR NEW OR INCREASED DISCHARGES

- 1. If this permit was issued for a new discharger or new source, this permit shall expire eighteen months after the issuance date if construction of the facility has not begun during the eighteen-month period.
- 2. If this permit was issued or modified to allow the discharge of increased quantities of pollutants to accommodate the modification of an existing facility and if construction of this modification has not begun during the eighteen month period after issuance of this permit or permit modification, this permit shall be modified to reduce the quantities of pollutants allowed to be discharged to those levels that would have been allowed if the modification of the facility had not been planned.
- 3. Construction has begun when the owner or operator has:
  - a. begun, or caused to begin as part of a continuous on-site construction program:
    - (1) any placement, assembly, or installation of facilities or equipment; or
    - (2) significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which is necessary for the placement, assembly, or installation of new source facilities or equipment; or
  - b. entered into a binding contractual obligation for the purpose of placement, assembly, or installation of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under the paragraph. The entering into a lease with the State of Alabama for exploration and production of hydrocarbons shall also be considered beginning construction.

#### F. COMPLIANCE WITH WATER QUALITY STANDARDS

- 1. On the basis of the permittee's application, plans, or other available information, the Department has determined that compliance with the terms and conditions of this permit should assure compliance with the applicable water quality standards.
- 2. Compliance with permit terms and conditions notwithstanding, if the permittee's discharge(s) from point sources identified in Provision I. A. of this permit cause or contribute to a condition in contravention of state water quality standards, the Department may require abatement action to be taken by the permittee in emergency situations or modify the permit pursuant to the Department's Rules, or both.
- 3. If the Department determines, on the basis of a notice provided pursuant to this permit or any investigation, inspection or sampling, that a modification of this permit is necessary to assure maintenance of water quality standards or compliance with other provisions of the AWPCA or FWPCA, the Department may require such modification and, in cases of emergency, the Director may prohibit the discharge until the permit has been modified.

#### G. GROUNDWATER

Unless specifically authorized under this permit, this permit does not authorize the discharge of pollutants to groundwater. Should a threat of groundwater contamination occur, the Director may require groundwater monitoring to properly assess the degree of the problem and the Director may require that the Permittee undertake measures to abate any such discharge and/or contamination.

#### H. DEFINITIONS

- 1. Average monthly discharge limitation means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month (zero discharge days shall not be included in the number of "daily discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).
- 2. Average weekly discharge limitation means the highest allowable average of "daily discharges" over a calendar week, calculated as the sum of all "daily discharges" measured during a calendar week divided by the number of "daily discharges" measured during that week (zero discharge days shall not be included in the number of "daily discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).
- 3. Arithmetic Mean means the summation of the individual values of any set of values divided by the number of individual values.

- AWPCA means the Alabama Water Pollution Control Act.
- 5. BOD means the five-day measure of the pollutant parameter biochemical oxygen demand.
- 6. Bypass means the intentional diversion of waste streams from any portion of a treatment facility.
- 7. CBOD means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.
- 8. Daily discharge means the discharge of a pollutant measured during any consecutive 24-hour period in accordance with the sample type and analytical methodology specified by the discharge permit.
- 9. Daily maximum means the highest value of any individual sample result obtained during a day.
- Daily minimum means the lowest value of any individual sample result obtained during a day.
- 11. Day means any consecutive 24-hour period.
- 12. Department means the Alabama Department of Environmental Management.
- Director means the Director of the Department.
- 14. Discharge means "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other wastes into waters of the state". Code of Alabama 1975, Section 22-22-1(b)(8).
- Discharge Monitoring Report (DMR) means the form approved by the Director to accomplish reporting requirements of an NPDES permit.
- DO means dissolved oxygen.
- 17. 8HC means 8-hour composite sample, including any of the following:
  - a. The mixing of at least 5 equal volume samples collected at constant time intervals of not more than 2 hours over a period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
  - b. A sample continuously collected at a constant rate over period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
- EPA means the United States Environmental Protection Agency.
- 19. FC means the pollutant parameter fecal coliform.
- 20. Flow means the total volume of discharge in a 24-hour period.
- 21. FWPCA means the Federal Water Pollution Control Act.
- 22. Geometric Mean means the Nth root of the product of the individual values of any set of values where N is equal to the number of individual values. The geometric mean is equivalent to the antilog of the arithmetic mean of the logarithms of the individual values. For purposes of calculating the geometric mean, values of zero (0) shall be considered one (1).
- 23. Grab Sample means a single influent or effluent portion which is not a composite sample. The sample(s) shall be collected at the period(s) most representative of the discharge.
- 24. Indirect Discharger means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.
- 25. Industrial User means those industries identified in the Standard Industrial Classification manual, Bureau of the Budget 1967, as amended and supplemented, under the category "Division D Manufacturing" and such other classes of significant waste producers as, by regulation, the Director deems appropriate.
- 26. MGD means million gallons per day.
- 27. Monthly Average means, other than for fecal coliform bacteria, the arithmetic mean of the entire composite or grab samples taken for the daily discharges collected in one month period. The monthly average for fecal coliform bacteria is the geometric mean of daily discharge samples collected in a one month period. The monthly average for flow is the arithmetic mean of all flow measurements taken in a one month period.

- 28. New Discharger means a person, owning or operating any building, structure, facility or installation:
  - a. from which there is or may be a discharge of pollutants;
  - b. that did not commence the discharge of pollutants prior to August 13, 1979, and which is not a new source; and
  - c. which has never received a final effective NPDES permit for dischargers at that site.
- 29. NH3-N means the pollutant parameter ammonia, measured as nitrogen.
- 30. Permit application means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.
- Point source means "any discernible, confined and discrete conveyance, including but not limited to any pipe, channel, ditch, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, . . . from which pollutants are or may be discharged." Section 502(14) of the FWPCA, 33 U.S.C. Section 1362(14).
- 32. Pollutant includes for purposes of this permit, but is not limited to, those pollutants specified in <u>Code of Alabama</u> 1975, Section 22-22-1(b)(3) and those effluent characteristics specified in Provision I. A. of this permit.
- Privately Owned Treatment Works means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a "POTW".
- 34. Publicly Owned Treatment Works means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.
- 35. Receiving Stream means the "waters" receiving a "discharge" from a "point source".
- 36. Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- 37. Significant Source means a source which discharges 0.025 MGD or more to a POTW or greater than five percent of the treatment work's capacity, or a source which is a primary industry as defined by the U.S. EPA or which discharges a priority or toxic pollutant.
- 38. Solvent means any virgin, used or spent organic solvent(s) identified in the F-Listed wastes (F001 through F005) specified in 40 CFR 261.31 that is used for the purpose of solubilizing other materials.
- 39. TKN means the pollutant parameter Total Kjeldahl Nitrogen.
- 40. TON means the pollutant parameter Total Organic Nitrogen.
- 41. TRC means Total Residual Chlorine.
- 42. TSS means the pollutant parameter Total Suspended Solids.
- 43. 24HC means 24-hour composite sample, including any of the following:
  - a. the mixing of at least 12 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;
  - b. a sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected; or
  - a sample collected over a consecutive 24-hour period using an automatic composite sampler composited proportional to flow.
- 44. Upset means an exceptional incident in which there is an unintentional and temporary noncompliance with technology-based permit discharge limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

- Waters means "[a]ll waters of any river, stream, watercourse, pond, lake, coastal, ground or surface water, wholly or partially within the state, natural or artificial. This does not include waters which are entirely confined and retained completely upon the property of a single individual, partnership or corporation unless such waters are used in interstate commerce." Code of Alabama 1975, Section 22-22-1(b)(2). Waters "include all navigable waters" as defined in Section 502(7) of the FWPCA, 22 U.S.C. Section 1362(7), which are within the State of Alabama.
- 46. Week means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.
- Weekly (7-day and calendar week) Average is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week is defined as beginning on Sunday and ending on Saturday. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for the calendar week shall be included in the data for the month that contains the Saturday.

#### I. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

#### PART IV ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS

#### A. BEST MANAGEMENT PRACTICES (BMP) PLAN REQUIREMENTS

BMP Plan

The permittee shall develop and implement a Best Management Practices (BMP) Plan which prevents, or minimizes the potential for, the release of pollutants from ancillary activities, including material storage areas; plant site runoff; in-plant transfer, process and material handling areas; loading and unloading operations, and sludge and waste disposal areas, to the waters of the State through plant site runoff; spillage or leaks; sludge or waste disposal; or drainage from raw material storage.

#### 2. Plan Content

The permittee shall prepare and implement a best management practices (BMP) plan, which shall:

- a. Establish specific objectives for the control of pollutants:
  - (1) Each facility component or system shall be examined for its potential for causing a release of significant amounts of pollutants to waters of the State due to equipment failure, improper operation, natural phenomena such as rain or snowfall, etc.
  - (2) Where experience indicates a reasonable potential for equipment failure (e.g., a tank overflow or leakage), natural condition (e.g. precipitation), or circumstances to result in significant amounts of pollutants reaching surface waters, the plan should include a prediction of the direction, rate of flow, and total quantity of pollutants which could be discharged from the facility as a result of each condition or circumstance.
- b. Establish specific best management practices to meet the objectives identified under paragraph a. of this section, addressing each component or system capable of causing a release of significant amounts of pollutants to the waters of the State, and identifying specific preventative or remedial measures to be implemented;
- c. Establish a program to identify and repair leaking equipment items and damaged containment structures, which may contribute to contaminated stormwater runoff. This program must include regular visual inspections of equipment, containment structures and of the facility in general to ensure that the BMP is continually implemented and effective;
- d. Prevent the spillage or loss of fluids, oil, grease, gasoline, etc. from vehicle and equipment maintenance activities and thereby prevent the contamination of stormwater from these substances;
- e. Prevent or minimize stormwater contact with material stored on site;
- f. Designate by position or name the person or persons responsible for the day to day implementation of the BMP;
- g. Provide for routine inspections, on days during which the facility is manned, of any structures that function to prevent stormwater pollution or to remove pollutants from stormwater and of the facility in general to ensure that the BMP is continually implemented and effective;
- h. Provide for the use and disposal of any material used to absorb spilled fluids that could contaminate stormwater;
- i. Develop a solvent management plan, if solvents are used on site. The solvent management plan shall include as a minimum lists of the solvents on site; the disposal method of solvents used instead of dumping, such as reclamation, contract hauling; and the procedures for assuring that solvents do not routinely spill or leak into the stormwater;
- j. Provide for the disposal of all used oils, hydraulic fluids, solvent degreasing material, etc. in accordance with good management practices and any applicable state or federal regulations;
- k. Include a diagram of the facility showing the locations where stormwater exits the facility, the locations of any structure or other mechanisms intended to prevent pollution of stormwater or to remove pollutants from stormwater, the locations of any collection and handling systems;
- I. Provide control sufficient to prevent or control pollution of stormwater by soil particles to the degree required to maintain compliance with the water quality standard for turbidity applicable to the waterbody(s) receiving discharge(s) under this permit;
- m. Provide spill prevention, control, and/or management sufficient to prevent or minimize contaminated stormwater runoff. Any containment system used to implement this requirement shall be constructed of materials compatible with the substance(s) contained and shall prevent the contamination of groundwater. The containment system shall also be capable of retaining a volume equal to 110 percent of the capacity of the largest tank for which containment is provided;

- Provide and maintain curbing, diking or other means of isolating process areas to the extent necessary to allow segregation and collection for treatment of contaminated stormwater from process areas;
- o. Be reviewed by plant engineering staff and the plant manager; and
- p. Bear the signature of the plant manager.

#### 3. Compliance Schedule

The permittee shall have reviewed (and revised if necessary) and fully implemented the BMP plan as soon as practicable but no later than six months after the effective date of this permit.

#### 4. Department Review

- a. When requested by the Director or his designee, the permittee shall make the BMP available for Department review.
- b. The Director or his designee may notify the permittee at any time that the BMP is deficient and require correction of the deficiency.
- c. The permittee shall correct any BMP deficiency identified by the Director or his designee within 30 days of receipt of notification and shall certify to the Department that the correction has been made and implemented.

#### 5. Administrative Procedures

- a. A copy of the BMP shall be maintained at the facility and shall be available for inspection by representatives of the Department.
- b. A log of the routine inspection required above shall be maintained at the facility and shall be available for inspection by representatives of the Department. The log shall contain records of all inspections performed for the last three years and each entry shall be signed by the person performing the inspection.
- c. The permittee shall provide training for any personnel required to implement the BMP and shall retain documentation of such training at the facility. This documentation shall be available for inspection by representatives of the Department. Training shall be performed prior to the date that implementation of the BMP is required.
- d. BMP Plan Modification. The permittee shall amend the BMP plan whenever there is a change in the facility or change in operation of the facility which materially increases the potential for the ancillary activities to result in a discharge of significant amounts of pollutants.
- e. BMP Plan Review. The permittee shall complete a review and evaluation of the BMP plan at least once every three years from the date of preparation of the BMP plan. Documentation of the BMP Plan review and evaluation shall be signed and dated by the Plant Manager.

#### B. STORMWATER FLOW MEASUREMENT AND SAMPLING REQUIREMENTS

#### 1. Stormwater Flow Measurement

- a. All stormwater samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches.
- b. The total volume of stormwater discharged for the event must be monitored, including the date and duration (in hours) and rainfall (in inches) for storm event(s) sampled. The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event must be a minimum of 72 hours. This information must be recorded as part of the sampling procedure and records retained according to Part I.B. of this permit.
- c. The volume may be measured using flow measuring devices, or estimated based on a modification of the Rational Method using total depth of rainfall, the size of the drainage area serving a stormwater outfall, and an estimate of the runoff coefficient of the drainage area. This information must be recorded as part of the sampling procedure and records retained according to Part I.B. of this permit.

#### 2. Stormwater Sampling

- a. A grab sample, if required by this permit, shall be taken during the first thirty minutes of the discharge (or as soon thereafter as practicable); and a flow-weighted composite sample, if required by this permit, shall be taken for the entire event or for the first three hours of the event.
- b. All test procedures will be in accordance with part I.B. of this permit.



KAY IVEY
GOVERNOR

## Alabama Department of Environmental Management adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463 Montgomery, Alabama 36130-1463 (334) 271-7700 ■ FAX (334) 271-7950

#### **FACT SHEET**

# APPLICATION FOR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT TO DISCHARGE POLLUTANTS TO WATERS OF THE STATE OF ALABAMA

Date: April 24, 2018

Prepared By: Brian Marshall

NPDES Permit No. AL0003565

#### 1. Name and Address of Applicant:

Zenith Energy Mobile Holdings LLC 3000 Research Forest Drive Suite 250 The Woodlands, TX 77381

#### 2. Name and Address of Facility:

Zenith Energy Terminals Mobile Holdings, LLC - Mobile 835 Cochran Causeway, Highway 90/98 Blakely Island Mobile, Alabama 36610

#### 3. Description of Applicant's Type of Facility and/or Activity Generating the Discharge:

Individual Permit - Standard

#### 4. Applicant's Receiving Waters

Receiving Waters
Mobile River

Classification Tier 1, LWF

For the Outfall latitude and longitude see the permit application.

#### 5. Permit Conditions:

See attached Rationale and Draft Permit.

#### 6. PROCEDURES FOR THE FORMULATION OF FINAL DETERMINATIONS

#### a. Comment Period

The Alabama Department of Environmental Management proposes to issue this NPDES permit subject to the limitations and special conditions outlined above. This determination is tentative.

Interested persons are invited to submit written comments on the draft permit to the following address:



Russell A. Kelly, Chief
Permits and Services Division
Alabama Department of Environmental Management
1400 Coliseum Blvd
(Mailing Address: Post Office Box 301463; Zip 36130-1463)
Montgomery, Alabama 36110-2059
(334) 271-7714

All comments received prior to the closure of the public notice period (see public notice for date) will be considered in the formulation of the final determination with regard to this permit.

#### b. Public Hearing

A written request for a public hearing may be filed within the public notice period and must state the nature of the issues proposed to be raised in the hearing. A request for a hearing should be filed with the Department at the following address:

Russell A. Kelly, Chief
Permits and Services Division
Alabama Department of Environmental Management
1400 Coliseum Blvd
(Mailing Address: Post Office Box 301463; Zip 36130-1463)
Montgomery, Alabama 36110-2059
(334) 271-7714

The Director shall hold a public hearing whenever it is found, on the basis of hearing requests, that there exists a significant degree of public interest in a permit application or draft permit. The Director may hold a public hearing whenever such a hearing might clarify one or more issues involved in the permit decision. Public notice of such a hearing will be made in accordance with ADEM Admin. Code r. 335-6-6-21.

#### c. Issuance of the Permit

All comments received during the public comment period shall be considered in making the final permit decision. At the time that any final permit decision is issued, the Department shall prepare a response to comments in accordance with ADEM Admin. Code r. 335-6-6-.21. The permit record, including the response to comments, will be available to the public via the eFile System (http://app.adem.alabama.gov/eFile/) or an appointment to review the record may be made by writing the Permits and Services Division at the above address.

Unless a request for a stay of a permit or permit provision is granted by the Environmental Management Commission, the proposed permit contained in the Director's determination shall be issued and effective, and such issuance will be the final administrative action of the Alabama Department of Environmental Management.

#### d. Appeal Procedures

As allowed under ADEM Admin. Code chap. 335-2-1, any person aggrieved by the Department's final administrative action may file a request for hearing to contest such action. Such requests should be received by the Environmental Management Commission within thirty days of issuance of the permit. Requests should be filed with the Commission at the following address:

Alabama Environmental Management Commission 1400 Coliseum Blvd (Mailing Address: Post Office Box 301463; Zip 36130-1463) Montgomery, Alabama 36110-2059

All requests must be in writing and shall contain the information provided in ADEM Admin. Code r. 335-2-1-.04.

#### ADEM PERMIT RATIONALE

PREPARED DATE: March 20, 2018 PREPARED BY: Brian Marshall

Permittee Name: Zenith Energy Terminals Mobile Holdings LLC

Facility Name: Zenith Energy Terminals Mobile Holdings LLC - Mobile

Permit Number: AL0003565

#### PERMIT IS REISSUANCE DUE TO EXPIRATION

#### DISCHARGE SERIAL NUMBERS & DESCRIPTIONS:

DSN001: Stormwater runoff associated with asphalt processing activities. DSN002: Stormwater runoff associated with asphalt processing activities.

DSN003: Stormwater runoff associated with asphalt processing activities and DSN003A.

DSN03A: Wastewater resulting from boiler floor drains, boiler condensate, non-contact cooling water and

hydrostatic test water.

DSN004: Stormwater runoff associated with asphalt processing activities and hydrostatic test water.

DSN04A: Hydrostatic test water.

DSN005: Stormwater runoff associated with asphalt processing activities. DSN006: Stormwater runoff associated with asphalt processing activities.

DSN007: Stormwater runoff associated with asphalt processing activities and hydrostatic test water.

DSN07A: Hydrostatic test water.

DSN008: Stormwater runoff associated with asphalt processing activities. DSN009: Stormwater runoff associated with asphalt processing activities.

#### INDUSTRIAL CATEGORY: PAVING AND ROOFING MANUFACTURING

MAJOR: N

#### STREAM INFORMATION:

Receiving Stream: Mobile River via Drainage Ditch

Classification: LWF
River Basin: Mobile
7Q10: 0 cfs
1Q10: 0 cfs
Annual Average Flow: 0 cfs

303(d) List: YES

Impairment: Mercury

TMDL: NO

#### **DISCUSSION:**

Zenith Energy Terminals – Mobile is a full service liquid bulk storage terminal company featuring diversified liquid petroleum storage and a provider of liquid asphalt products. Operations include, asphalt processing to produce roofing and industrial asphalt products.

ADEM Administrative Rule 335-6-10-.12 requires applicants to new or expanded discharges to Tier II waters demonstrate that the proposed discharge is necessary for important economic or social development in the area in which the waters are located. The application submitted by the facility is not for a new or expanded discharge. Therefore, the applicant is not required to demonstrate that the discharge is necessary for economic and social development.

EPA has not promulgated specific guidelines for the discharges covered under the proposed permit. Proposed permit limits are based on Best Professional Judgment. The proposed frequencies are based on a review of site specific conditions and an evaluation of similar facilities.

001S - 009S: Stormwater runoff associated with asphalt processing activities

<u>Parameter</u>	Monthly Avg Loading	<u>Daily Max</u> <u>Loading</u>	<u>Daily Min</u> <u>Concentration</u>	Monthly Avg Concentration	<u>Daily Max</u> <u>Concentration</u>	<u>Sample</u> <u>Frequency</u>	Sample Type	Basis*
BOD, 5-Day (20 Deg. C)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	
pН	-		REPORT S.U.	-	REPORT S.U.	Twice per Year	Grab	
Solids, Total Suspended	-	-	-	-	REPORT mg/l	Twice per Year	Grab	
Oil & Grease	-	-	-	-	15.0 mg/l	Twice per Year	Grab	
Toluene	-	-	-	-	8723 ug/l	Twice per Year	Grab	
Benzene	-	-	-	-	15.4 ug/l	Twice per Year	Grab	
Ethylbenzene	-	-	-	-	1244 ug/l	Twice per Year	Grab	
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Twice per Year	Estimate	
Solids, Total Dissolved	-	-	-	-	REPORT mg/l	Twice per Year	Grab	
Chemical Oxygen Demand (COD)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	
Xylene	-	-	-	-	REPORT ug/l	Twice per Year	Grab	

003A: Wastewater resulting from boiler floor drains, boiler condensate, non-contact cooling water and hydrostatic test water.

<u>Parameter</u>	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	<u>Daily Max</u> <u>Concentration</u>	Sample Frequency	Sample Type	Basis*
Temperature, Water Deg. Fahrenheit	-	-	-	-	90.0 F	Monthly	Grab	
BOD, 5-Day (20 Deg. C)	-	-	-	-	REPORT mg/l	Monthly	Composite	
pН	-	-	6.0 S.U.	-	8.5 S.U.	Monthly	Grab	

Oil & Grease	-	-	-	-	15.0 mg/l	Monthly	Grab
Color (ADMI Units)	-	-	-	-	REPORT ADMI	Monthly	Grab
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Monthly	Estimate
Chlorine, Total Residual	-	-	-	-	1.0 mg/l	Monthly	Grab
Chemical Oxygen Demand (COD)	-		-	<del>,</del>	REPORT mg/l	Monthly	Composite

#### 004A: Hydrostatic test water

	Monthly Avg	Daily Max	Daily Min	Monthly Avg	Daily Max	<u>Sample</u>	Sample Type	
<u>Parameter</u>	Loading	<b>Loading</b>	Concentration	Concentration	Concentration	<b>Frequency</b>		Basis*
рН	-	-	REPORT S.U.	-	REPORT S.U.	Once/Discharge	Grab	
Oil & Grease	-	-	-	-	15.0 mg/l	Once/Discharge	Grab	
Color (ADMI Units)	-	-	-	-	REPORT ADMI	Once/Discharge	Grab	
Toluene	-	-	-	-	REPORT ug/l	Once/Discharge	Grab	
Benzene	-	-	-	-	REPORT ug/l	Once/Discharge	Grab	
Ethylbenzene	-	-	-	-	REPORT ug/l	Once/Discharge	Grab	
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Once/Discharge	Estimate	
Chlorine, Total Residual	-	-	-	-	1.0 mg/l	Once/Discharge	Grab	
Xylene	-	-	-	-	REPORT ug/l	Once/Discharge	Grab	

#### 007A: Hydrostatic test water

Parameter	Monthly Avg Loading	Daily Max Loading	<u>Daily Min</u> Concentration	Monthly Avg Concentration	<u>Daily Max</u> <u>Concentration</u>	Sample Frequency	Sample Type	Basis*
pH		-	REPORT S.U.	-	REPORT S.U.	Once/Discharge	Grab	
Oil & Grease	-	-	_	9	15.0 mg/l	Once/Discharge	Grab	

Color (ADMI Units)	-	-	-	-	REPORT ADMI	Once/Discharge	Grab
Toluene	-	-	-	-	8723 ug/l	Once/Discharge	Grab
Benzene	-	-	-	-	15.4 ug/l	Once/Discharge	Grab
Ethylbenzene	-	-	-	-	1244 ug/l	Once/Discharge	Grab
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Once/Discharge	Estimate
Chlorine, Total Residual	-	-	-	-	1.0 mg/l	Once/Discharge	Grab
Xylene	-	-	-	-	REPORT ug/l	Once/Discharge	Grab

#### \*Basis for Permit Limitation

- BPJ Best Professional Judgment
- WQBEL Water Quality Based Effluent Limits EGL Federal Effluent Guideline Limitations
- 303(d) 303(d) List of Impaired Waters
- TMDL Total Maximum Daily Load Requirements

#### Discussion

# Best Professional Judgment (BPJ)

The parameters of concern for this facility are based on the parameters of concern listed in EPA forms 2E, 2F, form 187, and from the current permit. These parameters are consistent with similar facilities in the state and have been proven to be reflective of the operations at this facility. The parameters with specific limits are discussed below:

# Assumed Flow in Mobile River at the Discharge Point

Although ADEM's Water Quality Branch has stated that the Mobile River flow is zero due to tidal influence, this draft permit will assume that there is available dilution in the receiving stream based on BPJ. The Water Quality Branch has also stated that some situations warrant dilution considerations because of the "large volume of water at the point of discharge." This situation applies to the discharge points in this permit.

# 303(d) List of Impaired Waters/Total Maximum Daily Load (TMDL)

The Mobile River is listed on the 303(d) list as being impaired for metals (mercury). No TMDL has been established for this parameter at this time. It is believed that Zenith Energy Terminals Mobile Holdings LLC will not add to or contribute to this impairment. Therefore, monitoring for mercury will not be added to the permit at this time.

#### DSN001-DSN009:

The pollutants of primary concern from the manufacturing processes at this facility are: pH, BOD<sub>5</sub>, and COD. These parameters coupled with the conventional pollutants of oil and grease, TSS, and TDS are to be monitored on a semi-annual basis as a measure of the effectiveness of the BMP plan. A requirement that the discharge shall have no sheen, and that there shall be no discharge of visible oil, floating solids, or visible foam has also been included in the permit.

#### Oil & Grease

The daily maximum limit of 15.0 mg/l for Oil and Grease should prevent the occurrence of a visible sheen in the stream and has been shown to be achievable through the use of proper BMPs.

#### Benzene, Ethylbenzene, Toluene, Xylene

The proposed daily maximum limitations of these parameters at DSN001 - 009 are based on Human Health Criteria. The previous permit had no limitations for discharges to the Mobile River and limitations for the Unnamed Tributaries. Because of the changes in assumed flows, Human Health criteria shall apply. It is not believed the Human Health Criteria for these parameters will be exceeded due to the dilution received from the receiving stream from these outfalls. These parameters and monitoring requirements are consistent with the General Storm Water Permit for the storage of petroleum products.

Outfalls DSN002, DSN003, and DSN007 have been determined to be representative sampling points for storm water outfalls DSN001- DSN008. DSN003 has been added to the list of outfalls to be monitored because of the addition of DSN003A. DSN009 will also be monitored since it is a new outfall draining storm water previously discharged via DSN001.

#### DSN03A:

This outfall has been created to replace DSN001A per the facility's request.

### Oil & Grease

The daily maximum limit of 15.0 mg/l for Oil and Grease should prevent the occurrence of a visible sheen in the stream and has been shown to be achievable through the use of proper BMPs

#### BOD & COD

In order to measure of BMP effectiveness, Biochemical Oxygen Demand (5 day) and Chemical Oxygen Demand will be measured at this outfall at a frequency of once per month.

# <u>pH</u>

ADEM Administrative Code, Division 6 Regulations, specifically 335-6-10-.09 – Specific Water Quality for Fish and Wildlife classified streams states: "Sewage, industrial waste or other wastes shall not cause the pH to deviate more than one unit from then normal or natural pH, nor be less than 6.0, nor greater than 8.5 standard units."

#### Temperature

The ADEM Administrative Code, Division 6 Regulations, specifically 335-6-10-.09(6)-Specific Water Quality Criteria for Limited Warmwater Fishery classified streams sets a limit of 90°F in the stream.

#### Total Residual Chlorine (TRC)

TRC monitoring is proposed on the internal outfalls due to the possibility of chlorine being present in the supply water. The EPA National Recommended Water Quality Saltwater Criteria for chlorine is a daily maximum of 0.013 mg/l and a monthly average of 0.0075 mg/l. Based on the BPJ dilution noted above, the proposed limit shall remain at 1.0 mg/l.

#### Color

Due to the possibility of color being present in hydrostatic test water from the use of industrial dyes, color monitoring is proposed for outfall DSN003A (hydrostatic test water) per best professional judgment.

#### DSN004A:

Hydrostatic test water shall be sampled during a non-storm event. The parameters of concern are: color, TRC, pH, flow, oil and grease, and BTEX.

#### Color

Due to the possibility of color being present in hydrostatic test water from the use of industrial dyes, color monitoring is proposed for outfalls DSN004A (hydrostatic test water) per best professional judgment.

#### Benzene, Ethylbenzene, Toluene, Xylene

It is proposed to monitor these parameters. It is not believed the Human Health Criteria for these parameters will be exceeded due to the dilution received from the receiving stream. These parameters of concern are consistent with the General Storm Water Permit for the storage of petroleum products.

#### Oil and Grease

Monitoring for oil and grease are included to measure the effectiveness of the BMP and SPCC plans. Oil and Grease is proposed to be limited to 15.0 mg/l as a daily maximum limit. This limit should be achievable by the facility and to prevent the occurrence of oil sheen. Monitoring for this parameter will be required once per discharge.

#### Flow

Flow will be monitored once per discharge to quantify the volume of Hydrostatic Test water leaving the facility through the permitted outfall.

#### Total Residual Chlorine

TRC monitoring is proposed on the internal outfalls due to the possibility of chlorine being present in the supply water. The EPA National Recommended Water Quality Saltwater Criteria for chlorine is a daily maximum of 0.013 mg/l and a monthly average of 0.0075 mg/l. Based on the BPJ dilution noted above, the proposed limit shall remain at 1.0 mg/l.

#### **DSN007A:**

Hydrostatic test water shall be sampled during a non-storm event. The parameters of concern are: color, TRC, pH, flow, oil and grease, and BTEX.

# <u>Color</u>

Due to the possibility of color being present in hydrostatic test water from the use of industrial dyes, color monitoring is proposed for outfall DSN007A (hydrostatic test water) per best professional judgment.

#### Benzene, Ethylbenzene, Toluene, Xylene

The proposed daily maximum limitation of these parameters are based on Human Health Criteria. These monitoring requirements are consistent with the General Storm Water Permit for the storage of petroleum products.

# Oil and Grease

Monitoring for oil and grease are included to measure the effectiveness of the BMP and SPCC plans. Oil and Grease is proposed to be limited to 15.0 mg/l as a daily maximum limit. This limit should be achievable by the facility and to prevent the occurrence of oil sheen.

#### Flow

Flow will be monitored once per discharge to quantify the volume of Hydrostatic Test water leaving the facility through the permitted outfalls.

# Total Residual Chlorine

TRC monitoring is proposed on the internal outfalls due to the possibility of chlorine being present in the supply water. The EPA National Recommended Water Quality Saltwater Criteria for chlorine is a daily maximum of 0.013 mg/l and a monthly average of 0.0075 mg/l. Based on the BPJ dilution noted above, the proposed limit shall be set at 1.0 mg/l.

Best Management Practices (BMPs) are believed to be the most effective way to control the contamination of storm water from areas of industrial activities. This facility is required to maintain a BMP plan. The requirements of the BMP plan call for minimization of storm water contact with waste materials, products and by-products, and for prevention of spills or loss of fluids from equipment maintenance activities. The effectiveness of the BMPs will be measured through the monitoring of the pollutants of concern.

# ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM) NPDES INDIVIDUAL PERMIT APPLICATION SUPPLEMENTARY INFORMATION FOR INDUSTRIAL FACILITIES

Instructions: This form should be used to submit the required supplementary information for an application for an NPDES individual permit for industrial facilities. The completed application should be submitted to ADEM in duplicate. If insufficient space is available to address any item, please continue on an attached sheet of paper. Please mark "N/A" in the appropriate box when an item is not applicable to the applicant.

Please type or print legibly in blue or blinderial and the completed application to:

		ADEM-Water Industrial Sect P O Box 30146 Montgomery,	tion	DEC 04 2017	
	F	PURPOSE OF THIS	S APPLICATION	LIND. WON BRAIN	JH
	Initial Permit Application for New Facility*	Initial Perr	mit Application for Existing F	acility*	
	Modification of Existing Permit	<del></del>	e of Existing Permit		
LJ	Revocation & Reissuance of Existing Permit	* * * * * * * * * * * * * * * * * * * *	for participation in the ADEM's it ow permittee to electronically sub	Electronic Environmental (E2) Reporting n mit reports as required.	ust be
SE	CTION A - GENERAL INFORMATION				
1.	Facility Name: Arc Terminals - Mo	obile			
	a. Operator Name: Arc Terminals				
	b. Is the operator identified in A.1.a, the own If no, provide name and address of the operation facility.		■ Yes □ No information indicating the o	operator's scope of responsibility fo	or the
2.	NPDES Permit Number: AL 0 0 0 3	5 6 5 (not a	applicable if initial permit ap	plication)	
3.	SID Permit Number (if applicable): IU				
4.	NPDES General Permit Number (if applicable	): ALG			
5.	Facility Physical Location: (Attach a map with Street: 835 Cochrane Causeway		; street, route no. or othe	r specific identifier)	
	City: Mobile County: N		State: AL	<sub>Zip:</sub> 36610	
	Facility Location (Front Gate): Latitude: 30°4	2' 36.18" N	Longitud	000 001 00 748 141	
6.	Facility Mailing Address: P.O. Box 106	9			
0.	City: Mobile County:	Mobile	State: AL	Zip: 36633	
7.	Responsible Official (as described on the last Name and Title: Allen Rentz - HSSI	page of this applica	ation):		
	Address: P.O. Box 1069				
	<sub>City:</sub> Mobile	State:_A	<u> </u>	<sub>Zip:</sub> 36633	
	Phone Number: 251-432-7666	Email Add	<sub>ress:</sub> arentz@arcteri	minals.com	
8.	Designated Facility Contact:				
	Name and Title: Allen Rentz - HSS	E Manager	- Gulf Coast Regi	on	
	Phone Number: 251-432-7666	Email Add	ress:		

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9.	Designated Discharge Monitoring Report (DI				
	Name and Title: Allen Rentz - HS	SE Manager - Gu	ılf Coast R	egion	
	Phone Number: 251-432-7666	Email Address:_	arentz@ar	cterminals.c	om
10.	Type of Business Entity:				
	☐ Corporation ☐ General Partnership	☐ Limited Partnership	■ Limited Lia	bility Company	☐ Sole Proprietorship
	Other (Please Specify)	•			
11.	Complete this section if the Applicant's busin	ness entity is a Corporation			
	a) Location of Incorporation:				
	Address:				
	City:County:			Zip:	
	b) Parent Corporation of Applicant:				
	Name: Arc Logistics Partners				
	Address: 725 Fifth Avenue, 19th	Floor			
		State: New \	/ork	Zip:	10022
	c) Subsidiary Corporation(s) of Applicant:				
	Name: Arc Terminals Holdings,	LLC			
	Address: 3000 Research Forest				
	City: The Woodlands	State: TX		Zin.	77381
	d) Corporate Officers:				
	Name: John Blanchard				
	Address: 3000 Research Forest	Drive			
	City: The Woodlands	State: TX		Zin.	77381
	Name: Clayton Curtis				
	Address: 3000 Research Forest	Drive			
	City: The Woodlands	TX			77381
	e) Agent designated by the corporation for				
	Name: NA				
	Address:				
	City:			Zip:	
12	If the Applicant's business entity is a Partner				
	Name: NA				
	Address:				
	City:State:Zip				Zip:
	on,oracezi	Oity			

NA	8. If the Applicant's business entity is a Proprietorship, please enter the proprietor's information.  Name: NA						
Address:							
City:	Stat	re:		Zip:			
14. Permit numbers for Applicant's p Permits presently held by the App							
Permit Name	<u>P</u>	ermit Number		Held By			
General Permit	ALG340	0610	Arc To	erminals Holdings, LLC			
General Permit	ALG3405	36/ALG140964	Arc To	erminals Holdings, LLC			
Individual Permit	AL00035	65/AL0075779	Arc T	erminals Holdings, LLC			
Individual Permit	AL0003	122	Arc T	erminals Holdings, LLC			
15. Identify all Administrative Complaif any, against the Applicant, its project (attach additional sheets if necessified Name)  Blakeley Terminal	arent corporation or subsid		the State o	Litigation concerning water pollution of Alabama within the past five years  Date of Action  September 10, 2015			
section B – Business Activity  1. Indicate applicable Standard Industinportance:  a. 4226  b  c  d  e  f  f  SECTION B – BUSINESS ACTIVITY	trial Classification (SIC) Co	des for all processes. If	f more than	one applies, list in order of			

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2.	. If your facility conducts or will be conducting any of the processes listed below (regardless of whether they generate wastewater, waste sludge, or hazardous waste), place a check beside the category of business activity (check all that apply):				
		<u>Indu</u> stri	ial Categories		
Δ f	□ Electroplating □ Explosives Manufactur □ Feedlots □ Ferroalloy Manufacturing □ Foundries (Metal Mold) □ Glass Manufacturing □ Grain Mills □ Gum and Wood Chemi □ Inorganic Chemicals □ Iron and Steel □ Leather Tanning and F □ Metal Finishing □ Meat Products	d Fruit and Vegetables d Seafood g atment  Components Manufacturing ring ng g ing and Casting)  icals Manufacturing	Metal Molding and Casting Metal Products Nonferrous Metals Forming Nonferrous Metals Manufacturi Oil and Gas Extraction Organic Chemicals Manufacturi Paint and Ink Formulating Paving and Roofing Manufacturing Pesticides Manufacturing Petroleum Refining Phosphate Manufacturing Phosphate Manufacturing Photographic Pharmaceutical Plastic & Synthetic Materials Plastics Processing Manufacturing Porcelain Enamel Pulp, Paper, and Fiberboard Minufacturing Soap and Detergent Manufacturing Steam and Electric Sugar Processing Textile Mills Timber Products Transportation Equipment Clear Waste Combustion Other (specify)	ring ring anufacturing uring	
A fa	acility with processes inclusive i ese facilities are termed "catego	n these business areas may be prical users" and should skip to	e covered by Environmental Protection question 2 of Section C.	on (EPA) categorical standards.	
3.	Give a brief description of all of	pperations at this facility including	ng primary products or services (atta	ch additional sheets if necessary):	
	Petroleum terminal with stor	rage tanks, rail car loading/un	loading, barge/ship loading/unloadi	ng, and truck loading/unloading.	
	Bulk chemical storage including	g acids, bases, product intermed	liates, and organic chemicals. A list of	the chemicals that may be stored at	
	the facility is attached.				
SE	CTION C WASTEWATER DIS	SCHARGE INFORMATION			
Fac	cilities that checked activities in	B 2 and are considered Catego	orical Industrial Users should skip to	C 2 of this section	
1.	For Non-Categorical Users (flow schematic (Figure 1), er	Only: Provide wastewater flow the description that corre	s for each of the processes or proposponds to each process. (The flownts). [New facilities should provide es	sed processes. Using the process	
	Process Description	Last 12 Months (gals/day) Highest Month Avg. Flow	Highest Flow Year of Last 5 (gals/day) Monthly Avg. Flow	Discharge Type (batch, continuous, intermittent)	
	Stormwater	2336	5934	Intermittent	
	Boiler Blowdown	40	40	Continuous	
	Hydrostatic Test Water	50400	50400	Intermittent	

a.	. Number of batch discharge	es: <u>2</u>	pe	er day			
b.	. Average discharge per bat	ch: 20		(GPD)			
C.	Time of batch discharges	7	at	9 a.m. and 9 p.	m.		
		(days of v		(hours of	day)		
d.	Flow rate: 20		gallons/mi	nute			
e.	Percent of total discharge:	<1%					
	Non-Process Disch non-contact coolin			Months /day) th Avg. Flow	(ga	w Year of Last 5 als/day) y Avg. Flow	
private Fo ea	water to a water of the State ely-owned treatment works, ch Yes or Categorical Users: Provide ach of your processes or pro orresponds to each process.	the wastewater	e appropriate spa discharge flows es. Using the pr nould provide est	or production (whice	eed directly to p chever is applica atic (Figure 1, p scharge.]	art 2.c . able by the effluent guide	lines) for
2b.	Process Description	Last 12 (gals/day), (lt Highest Mon	os/day), etc.	Highest Flow Yea (gals/day), (lbs/ Monthly Ave	/day), etc.	Discharge Type (batch, continuous, intermittent)	-
	* Reported values should example, flow (MGD), prod			e applicable Fed	eral production	n-based standard. Fo	
If batch	h discharge occurs or will occ		27.	stimate 1			
a.	Number of batch discharge	NIA	•	r dav			
b.	Average discharge per bate	S	·	GPD)			
		NA		NA			
C.	Time of batch discharges	(days of w	at /eek)	(hours of c	day)		
d.	Flow rate: NA		gallons/mir	nute			
e.	Percent of total discharge:	NA					

If batch discharge occurs or will occur, indicate: [new facilities may estimate.]

	Durg or will occur in di				intermittent)
	ours or will occur indi				
	ouro or will occur india				
a Number of b	outs of will occur, indic	cate: [new facilities may	v estimate.]		
a. Hamber of b	atch discharges: <u>1</u>	NA	per day		
b. Average disc	charge per batch:	NA	_ (GPD)		
c. Time of batc	h discharges NA		<sub>at</sub> NA		
	((	days of week)	(hours of	day)	
d. Flow rate: 1		gallons/	minute		
e. Percent of to	otal discharge: NA				
d.					
			12 Months		Year of Last 5
No	on-Process Discharge		als/day) onth Avg. Flow		s/day) Avg. Flow
	non-contact cooling w				
	non-contact cooling w				
(e.g. ı	non-contact cooling w				
(e.g. ı	non-contact cooling w				
(e.g. ı NA	complete C.3 – C.6.				
(e.g. I	complete C.3 – C.6.		No (If no. continue to	O C.4)	
(e.g. i NA II Applicants must		facility? ☐ Yes ■ N	No (If no, continue to	o C.4)	
(e.g. i NA II Applicants must	complete C.3 – C.6.  n outfall with another to outfall, provide the fo	facility? ☐ Yes ■ N	No (If no, continue to NPDES Permit No.	Where	e is sample collected by Applicant?
(e.g. to NA)  II Applicants must  Do you share a For each share Applicant's	complete C.3 – C.6.  n outfall with another to outfall, provide the fo	facility?	NPDES	Where	
(e.g. to NA)  If Applicants must  Do you share a For each share Applicant's	complete C.3 – C.6.  n outfall with another to outfall, provide the fo	facility?	NPDES	Where	
(e.g. I	complete C.3 – C.6.  In outfall with another to outfall, provide the form	facility?  Yes  Nollowing:	NPDES Permit No.	Where	by Applicant?
(e.g. I	complete C.3 – C.6.  In outfall with another to outfall, provide the formal of Other of Other of Other older to have, automatical or one of Other older to have, automatical or one of Other older older to have, automatical or other older old	facility?  Yes  IN Nollowing: Permittee/Facility ic sampling equipment	NPDES Permit No.  or continuous waste	Where	
(e.g. I	complete C.3 – C.6.  In outfall with another to outfall, provide the form	facility?  Yes  Nollowing:  Permittee/Facility  ic sampling equipment	NPDES Permit No.  or continuous waste	Where	by Applicant?
(e.g. I	complete C.3 – C.6.  In outfall with another to discuss of Other Name of Other Colons to have, automatic Current:	facility?  Yes  Sollowing:  Permittee/Facility  ic sampling equipment  Flow Metering  Sampling Equipmer	NPDES Permit No.  or continuous waste  Yes No.	water flow meterin	by Applicant?
(e.g. I	complete C.3 – C.6.  In outfall with another to outfall, provide the formal of Other of Other of Other older to have, automatical or one of Other older to have, automatical or one of Other older older to have, automatical or other older old	facility?  Yes  IN Pollowing: Permittee/Facility  ic sampling equipment Flow Metering Sampling Equipmer	NPDES Permit No.  or continuous waste  Yes No.  Yes No.	water flow meterin	by Applicant?
	complete C.3 – C.6.  In outfall with another to doutfall, provide the formal of Other Name of Other Current:  Planned:	facility?  Yes  IN Pollowing: Permittee/Facility  ic sampling equipment Flow Metering Sampling Equipmer Flow Metering Sampling Equipmer	NPDES Permit No.  or continuous waste  Yes No.  Yes No.  Yes No.	water flow meterin	by Applicant?
(e.g. in NA)  All Applicants must  Do you share an For each shared Applicant's Outfall No.  Do you have, or pure the second shared in t	complete C.3 – C.6.  In outfall with another to doutfall, provide the formal of Other Name of Other Current:  Planned:	facility?  Yes  IN Pollowing: Permittee/Facility  ic sampling equipment Flow Metering Sampling Equipmer Flow Metering Sampling Equipmer	NPDES Permit No.  or continuous waste  Yes No.  Yes No.  Yes No.	water flow meterin	by Applicant?  g equipment at this facility?
(e.g. to NA)  All Applicants must  Do you share at For each shared Applicant's Outfall No.  Do you have, or put the equipment because Are any process.	complete C.3 – C.6.  In outfall with another to doutfall, provide the following provide the complete the complete complete the complete complete the complete complete the complete complete complete the complete comple	facility? Yes following: Permittee/Facility  ic sampling equipment Flow Metering Sampling Equipmer Flow Metering Sampling Equipmer and of the sewer system	NPDES Permit No.  or continuous waste  Yes No.  Yes No.  Yes No.  Yes No.  Yes No.  indicating the preservations.	water flow metering N/A N/A N/A N/A nt or future location	by Applicant?  g equipment at this facility?

		Trade Name	Chemical Composition	
	ZCI BLR 58N, BLR 10, I	BLR 51, STEAM 145, FEEDW 4, and	See attached SDS/MSDS	
	BLR-ALK			
(	96-hour median tolera ultimately reach,	-	following information: ntative of the biota of the waterway into which the discharge will	
(	<ul><li>2) quantities to be used,</li><li>3) frequencies of use,</li><li>4) proposed discharge of</li><li>5) EPA registration num</li></ul>	concentrations, and		
	TION D - WATER SUPPI r Sources (check as many			
[	Private Well		Surface Water	
[	Municipal Water Utility	y (Specify City):	Other (Specify):	
I	F MORE THAN ONE WE	LL OR SURFACE INTAKE, PROVIL	DE DATA FOR EACH ON AN ATTACHMENT	
(	City: Mobile/0.02 MGD*	Well:MGD* Well De	oth:Ft. Latitude: Longitude:	_
5	Surface Intake Volume: 0.	504 MGD* Intake Elevat	ion in Relation to Bottom: 36Ft.	
		_Ft. Latitude: 30°42'21.8" N		
	 Name of Surface Water So			
		burce		
	MGD – Million Gallons			_
* Cooli	MGD – Million Gallons ng Water Intake Structu	per Day  Ire Information  water supply is provided by an o	utside source and not by an onsite water intake structure? (e.g	<b>]</b> .,
* Cooli	MGD – Million Gallons ng Water Intake Structu plete D.1 and D.2 if your ner industry, municipalit	per Day  Ire Information  water supply is provided by an order, etc)  our source water operate a surface w	utside source and not by an onsite water intake structure? (e.g	<b>.</b>
Cooli Com anoth	mgD – Million Gallons mg Water Intake Structu plete D.1 and D.2 if your ner industry, municipalit  Does the provider of you (If yes, continue, if no,	per Day  Ire Information  water supply is provided by an order, etc)  our source water operate a surface w	utside source and not by an onsite water intake structure? (e.g	
Cooli Com anoth	mgD – Million Gallons mg Water Intake Structu plete D.1 and D.2 if your ner industry, municipalit  Does the provider of you (If yes, continue, if no,	per Day  Tre Information  Twater supply is provided by an order, etc)  Our source water operate a surface was go to Section E.)	utside source and not by an onsite water intake structure? (e.g	
Cooli Com anoth	mgD – Million Gallons on Water Intake Structure plete D.1 and D.2 if your ner industry, municipality Does the provider of you (If yes, continue, if no, a) Name of Provider:_ c) Latitude:	per Day  Tre Information  Twater supply is provided by an outry, etc)  Dur source water operate a surface water to Section E.)  Longitude:  water system (defined as a system water system)	utside source and not by an onsite water intake structure? (e.g ater intake? Yes No •  b) Location of Provider:	
Cooli Com anoth 1.	mgD – Million Gallons  ng Water Intake Structu  plete D.1 and D.2 if your ner industry, municipalit  Does the provider of yo (If yes, continue, if no,  a) Name of Provider:_  c) Latitude:  Is the provider a public was	per Day  Tre Information  Twater supply is provided by an outry, etc)  Dur source water operate a surface water of section E.)  Longitude:  Water system (defined as a system water, not raw water)?  Pave a cooling water intake structure.	atside source and not by an onsite water intake structure? (e.g. ater intake? Yes No b) Location of Provider:  hich provides water to the public for human consumption or which	
* Cooli Companoti  1.  2.  Only and co	mgD – Million Gallons  ng Water Intake Structu  plete D.1 and D.2 if your ner industry, municipalit  Does the provider of yo (If yes, continue, if no,  a) Name of Provider:  c) Latitude:  Is the provider a public w provides only treated was to be completed if you it loes not treat the raw was	per Day  Tre Information  Twater supply is provided by an outry, etc)  Dur source water operate a surface water of section E.)  Longitude:  Water system (defined as a system water, not raw water)?  Pave a cooling water intake structure.	ater intake? Yes No by an onsite water intake structure? (e.g. b) Location of Provider:  hich provides water to the public for human consumption or which lo (If yes, go to Section E, if no, continue.)	
* Cooli Com anoth 1. 2. Conly and c	mgWater Intake Structurer industry, municipality Does the provider of you (If yes, continue, if no, a) Name of Provider: c) Latitude: Is the provider a public was provides only treated was to be completed if you have not treat the raw was using the average mor	per Day  Tre Information  Twater supply is provided by an outry, etc)  Dur source water operate a surface water of section E.)  Longitude:  water system (defined as a system water, not raw water)?  The ave a cooling water intake structuater.  from the source water used for cooling tree in the source water used for cooli	ater intake? Yes No by an onsite water intake structure? (e.g. b) Location of Provider:  hich provides water to the public for human consumption or which lo (If yes, go to Section E, if no, continue.)	
* Cooli Companoti  1.  2.  Conly and conditions  4	ng Water Intake Structurer industry, municipality Does the provider of you (If yes, continue, if no, a) Name of Provider: c) Latitude: Is the provider a public was provides only treated was to be completed if you have not treat the raw was a large more used exclusively for continue to the cooling water.	re Information  water supply is provided by an order, etc)  bur source water operate a surface water of Section E.)  Longitude:  water system (defined as a system water, not raw water)? Yes Nave a cooling water intake structuater.  from the source water used for cooling thilly measurements over any 12-moroling purposes?	ater intake? Yes No by an onsite water intake structure? (e.g. b) Location of Provider:  hich provides water to the public for human consumption or which lo (If yes, go to Section E, if no, continue.)  are or the provider of your water supply uses an intake structuring?	
Cooli Companoth 1.	mgWater Intake Structurer industry, municipality Does the provider of you (If yes, continue, if no, a) Name of Provider: c) Latitude: Is the provider a public was provides only treated was to be completed if you have not treat the raw was less any water withdrawn Using the average more used exclusively for continue, if no, a) Name of Provider: by the provider a public was provides only treated was to be completed if you have not treat the raw was less any water withdrawn. Using the average more used exclusively for continue to Section E	per Day  Tre Information  Twater supply is provided by an outry, etc)  Dur source water operate a surface water of section E.)  Longitude:  Water system (defined as a system water, not raw water)?  The ave a cooling water intake structuater.  If rom the source water used for cooling think measurements over any 12-moroling purposes?  The consist of treated effluent that would	ater intake? Yes No b) Location of Provider:  hich provides water to the public for human consumption or which lo (If yes, go to Section E, if no, continue.)  Irre or the provider of your water supply uses an intake structuring? Yes No  nth period, approximately what percentage of water withdrawn is	

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	(Please provide dates for all major	opportunation/installation	of intoko oon	mananta including caraana)
,	riease provide dates for all major	CONSTRUCTION/INSTANATION	of ilitake con	inponents including screens)
	What is the maximum intake volun (maximum pumping capacity in ga		-	
9.	What is the average intake volume (average intake pump rate in gallo	e? ns per day average in an	_ y 30-day per	riod)
10.	What is the actual intake flow (AIF	) as defined in 40 CFR §	125.92(a)? _	MGD
11.	How is the intake operated? (e.g.,	continuously, intermitten	tly, batch)	
12.	What is the mesh size of the scree	n on your intake?		
13.	What is the intake screen flow-thro	ugh area?		
14.	What is the through-screen design	intake flow velocity?	ft	/sec
15.	What is the through-screen actual	velocity (in ft/sec)?	ft/se	ec
16.	What is the mechanism for cleanin	g the screen? (e.g., does	s it rotate for	cleaning)
17.	Do you have any additional fish de	traction technology on yo	our intake?	☐ Yes ☐ No
	Have there been any studies to de provide.)	termine the impact of the	intake on ac	quatic organisms?  Yes  No (If yes, please
19.	Attach a site map showing the loca	ition of the water intake in	n relation to t	the facility, shoreline, water depth, etc.
this appl			T possible, t	he location should be noted on a map and included with  Description of Storage Location
_	Not applicable			Description of Storage Location
	TNOT applicable		+	
	a description of the location of the		s of solid or	r liquid waste by-products (such as sludges) from any
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Description of Waste	Quantity (lbs/	day)	Disposal Method*
	Description of Traste	additity (ibb)	aujj	D. Operation of
				ment facility and which are disposed of on-site. If
any was	tes are sent to an off-site centra	lized waste treatment t	acility, ideni	tify the waste and the facility.
SECTIO	N F - COASTAL ZONE INFORMA	ATION		
Is th	e discharge(s) located within the 1	0-foot elevation contour	and within th	ne limits of Mobile or Baldwin County? 🔳 Yes 🔲 No
If ye	s, complete items F.1 – F.12:			
1.	Does the project require new co	nstruction?		<u>Yes</u> <u>No</u>
2.				
	. ,			

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3	Does the project involve dredging and/or filling of a wetland area or water way?		× 140
	If Yes, has the Corps of Engineers (COE) permit been received?		
	COE Project No		
4			×
5	Are oyster reefs located near the project site?		x
	If Yes, include a map showing project and discharge location with respect to oyster reefs		
6	Does the project involve the site development, construction and operation of an energy facility as defined in ADEM Admin. Code r. 335-8-102(bb)?		x
7	Does the project involve mitigation of shoreline or coastal area erosion?		х
8	Does the project involve construction on beaches or dune areas?		x
9	Will the project interfere with public access to coastal waters?		x
1	0. Does the project lie within the 100-year floodplain?	x	
1	Does the project involve the registration, sale, use, or application of pesticides?		×
	Does the project propose or require construction of a new well or to alter an existing groundwater well to pump more than 50 gallons per day (GPD)?		₹
	If yes, has the applicable permit for groundwater recovery or for groundwater well installation been		
	obtained?		x
SECTIO	DN G – ANTI-DEGRADATION EVALUATION		
SECTION	ON G - ANTI-DEGRADATION EVALUATION		
provide	rdance with 40 CFR §131.12 and the ADEM Admin. Code r. 335-6-1004 for anti-degradation, the following info d, if applicable. It is the applicant's responsibility to demonstrate the social and economic importance of the pro nformation is required to make this demonstration, attach additional sheets to the application.		
	is a new or increased discharge that began after April 3, 1991? ☐ Yes ■ No s, complete G.2 below. If no, go to Section H.		
	an Anti-Degradation Analysis been previously conducted and submitted to the Department for the new or increa renced in G.1? ☐ Yes ■ No	sed disc	harge
335-	es, do not complete this section. If no, and the discharge is to a Tier II waterbody as defined in ADEM -6-1012(4), complete G.2.A – G.2.F below and ADEM Forms 311 and 313 (attached). ADEM Form 313 must a alternative considered technically viable.		
Infor	rmation required for new or increased discharges to high quality waters:		
Α.	What environmental or public health problem will the discharger be correcting?		
В.	How much will the discharger be increasing employment (at its existing facility or as the result of locating a new	facility)	?
C.	How much reduction in employment will the discharger be avoiding?		
D.	How much additional state or local taxes will the discharger be paying?		
E.	What public service to the community will the discharger be providing?		
F.	What economic or social benefit will the discharger be providing to the community?		

ADEM Form 187 10/17 m5 Page 9 of 11

#### SECTION H - EPA Application Forms

All Applicants must submit EPA permit application forms. More than one application form may be required from a facility depending on the number and types of discharges or outfalls found. The EPA application forms are found on the Department's website at <a href="http://www.adem.alabama.gov/programs/water/waterforms.cnt">http://www.adem.alabama.gov/programs/water/waterforms.cnt</a>. The EPA application forms must be submitted in duplicate as follows:

- 1. All applicants must submit Form 1.
- 2. Applicants for existing industrial facilities (including manufacturing facilities, commercial facilities, mining activities, and silvicultural activities) which discharge process wastewater must submit Form 2C.
- 3. Applicants for new industrial facilities which propose to discharge process wastewater must submit Form 2D.
- 4. Applicants for new and existing industrial facilities which discharge only non-process wastewater (i.e., non-contact cooling water and/or sanitary wastewater) must submit Form 2E.
- 5. Applicants for new and existing facilities whose discharge is composed entirely of storm water associated with industrial activity must submit Form 2F, unless exempted by § 122.26(c)(1)(ii). If the discharge is composed of storm water and non-storm water, the applicant must also submit Forms 2C, 2D, and/or 2E, as appropriate (in addition to Form 2F).

#### SECTION I - ENGINEERING REPORT/BMP PLAN REQUIREMENTS

See ADEM 335-6-6-.08(i) & (j)

#### **SECTION J- RECEIVING WATERS**

Outfall No.	Receiving Water(s)	303(d) Se	303(d) Segment?		1 TMDL?*
All	Mobile River	☐ Yes	■No	☐ Yes	■No
		☐ Yes	□No	☐ Yes	□No
		☐ Yes	□No	☐ Yes	□No
		☐ Yes	□No	☐ Yes	□No
		☐ Yes	□No	☐ Yes	□No

<sup>\*</sup>If a TMDL Compliance Schedule is requested, the following should be attached as supporting documentation:

- (1) Justification for the requested Compliance Schedule (e.g. time for design and installation of control equipment, etc.);
- (2) Monitoring results for the pollutant(s) of concern which have not previously been submitted to the Department (sample collection dates, analytical results (mass and concentration), methods utilized, MDL/ML, etc. should be submitted as available);
- (3) Requested interim limitations, if applicable;
- (4) Date of final compliance with the TMDL limitations; and,
- (5) Any other additional information available to support requested compliance schedule.

ADEM Form 187 10/17 m5 Page 10 of 11

#### SECTION K - APPLICATION CERTIFICATION

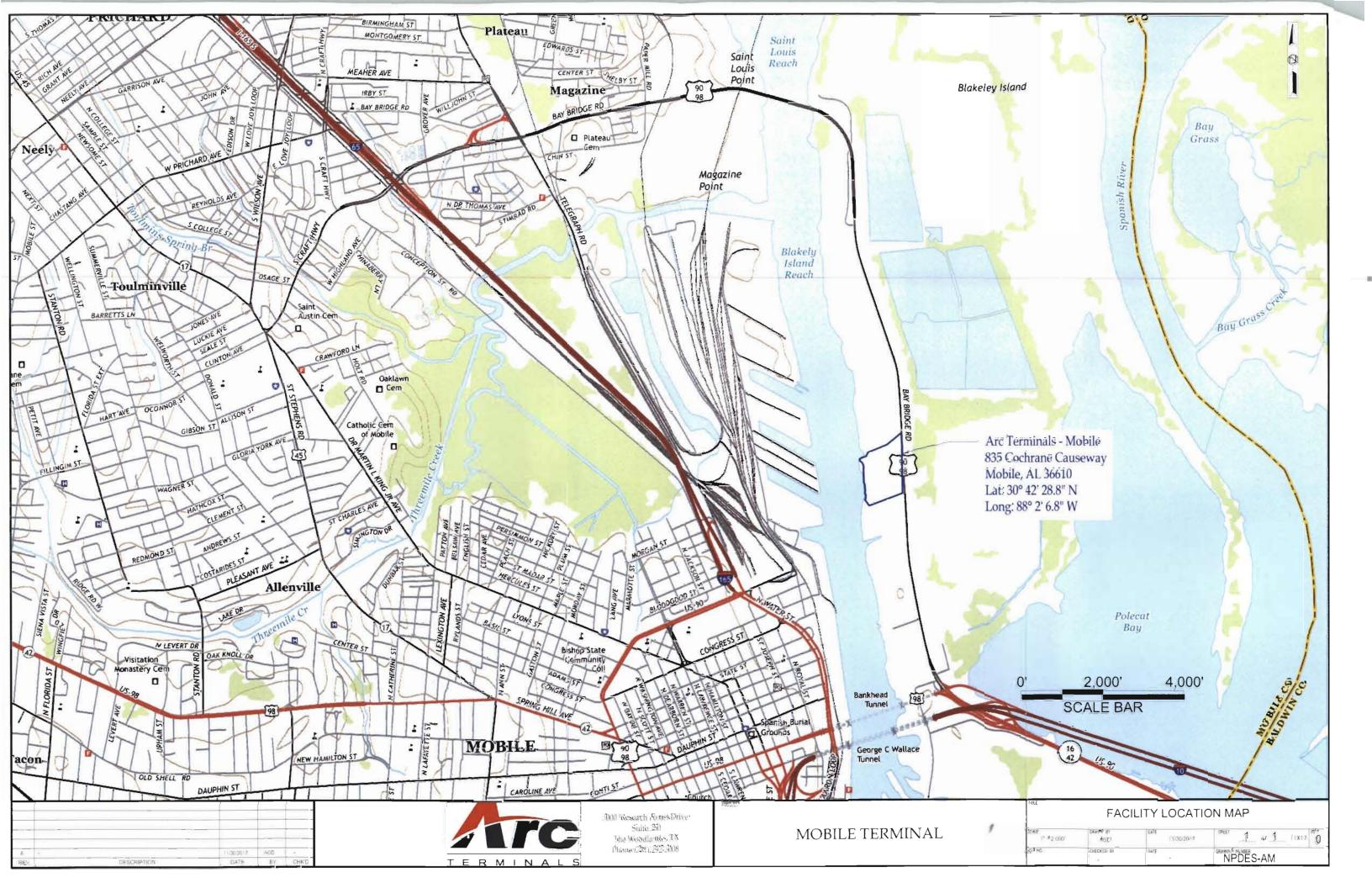
The information contained in this form must be certified by a responsible official as defined in ADEM Administrative Code r. 335-6-6-.09 "signatories to permit applications and reports" (see below).

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

Signature of Responsible Official:Name and Title: Allen Rentz - HS	SSE Guli Goast Region	Date Signed: 11-30-17
If the Responsible Official signing this application Mailing Address:	cation is $not$ identified in Section A.7, provide th $oldsymbol{9}$	e following information:
City: Mobile	State: AL	Zip: 36633
Phone Number: 251-432-7666	B Email Address: Arent	tz@arcterminals.com

#### 335-6-6-.09 SIGNATORIES TO PERMIT APPLICATIONS AND REPORTS.

- (1) The application for an NPDES permit shall be signed by a responsible official, as indicated below:
  - (a) In the case of a corporation, by a principal executive officer of at least the level of vice president, or a manager assigned or delegated in accordance with corporate procedures, with such delegation submitted in writing if required by the Department, who is responsible for manufacturing, production, or operating facilities and is authorized to make management decisions which govern the operation of the regulated facility;
  - (b) In the case of a partnership, by a general partner;
  - (c) In the case of a sole proprietorship, by the proprietor; or
  - (d) In the case of a municipal, state, federal, or other public entity, by either a principal executive officer, or ranking elected official.



# Potentially Used or Stored Chemicals Arc Terminals Holdings LLC Mobile Terminal

# Crude Oil and Refined Petroleum Products

Alkanes (C6-C9) n-Alkanes (C1O+)

iso- & cyclo-Alkanes (C10-C11)

Alkylbenzenes (C9+)

Alkylbenzene, Alkylindane, Alkylindene

mixture (each C12-C17)

Asphalt

Asphalt: cutback Asphalt: emulsion

Asphalt blending stocks: Roofers flux Asphalt blending stocks: Straight run

residue

Aviation alkylates

Cobalt naphthenate in Solvent naphtha

p-Cymene Cycloolefins

Diisopropyl naphthalene Distillates:

Flashed feed stocks Distillates: Straight run Ethyl cyclohexane Ethyl benzene Gas oil: Cracked

Gasoline: Automotive (not over 4.239

Pb/gal)

Gasoline: Aviation (not over 4.869 Pb/gal)

Gasoline: Casinghead (natural)

Gasoline: Polymer Gasoline: Straight run

Gasoline blending stocks: Alkylates
Gasoline blending stocks: Reformates

Heptane (all isomers)

Heptene (all isomers) Hexane (all isomers)

Hexene (all isomers)
Jet fuel: Jet A-1
Jet fuel: Jet A
Jet fuel: Jet B
Jet fuel: JP-4

Jet fuel: JP-5 (Kerosene, heavy)

Jet fuel: JP-8 Kerosene

Methylcyclohexane

Mineral spirits Naphtha: Heavy Naphtha: Paraffinic Naphtha: Petroleum Naphtha: Solvent

Naphtha: Stoddard solvent Naphtha: VM & P (75% Naphtha) Natural gas and crude oil condensate

Nonane (all isomers) Nonylbenzene Octane (all isomers)

Oil, fuel: No. 1
Oil, fuel: No. 1-D
Oil, fuel: No. 2
Oil, fuel: No. 2-D
Oil, fuel: No. 4
Oil, fuel: No. 5
Oil, fuel: No. 6
Oil, misc: Aliphatic
Oil, misc: Clarified
Oil, misc: Coal
Oil, misc: Crude
Oil, misc: Diesel

Oil, misc: Gas, low pour Oil, misc: Gas. low sulfur Oil, misc: Heartcut distillate

Oil, misc: Lubricating

Oil, misc: Mineral

Oil, misc: Mineral seal

Oil, misc: Motor Oil, misc:

Penetrating Oil, misc: ResidualOil,

misc: Road Oil, misc: Seal Oil, misc: Spindle

Oil, misc: Transformer Oil, misc: Turbine Olefin mixtures (C5-C7)

alpha-Olefins (C6-C18) mixtures

Olefins (C13+)
Pentene (all isomers)
1-Phenyl-1-xylyl
ethane iso-

Propylcyclohexane

Styrene

Tetrahydronaphthalene

White spirit (low (15-20%) aromatic)

**Xylenes** 

# Edible Animal and Vegetable Oils

Oil, edible: BeechnutOil, edible:

Castor

Oil, edible: Cocoa butter Oil, edible: Coconut Oil, edible: Cod liver Oil, edible: Corn (maize) Oil, edible: Cottonseed

Oil, edible: Fish Oil, edible: Groundnut Oil, edible: Hazelnut Oil, edible: Lard

Oil, edible: Nutmeg butter

Oil, edible: Olive Oil, edible: Palm Oil, edible: Palm kernel

Oil, edible: Palm kernel Oil, edible: Peanut

Oil, edible: Peel Oil, edible: Poppy

Oil, edible: Poppy seed
Oil, edible: Raisin seed
Oil, edible: Rapeseed
Oil, edible: Rice bran
Oil, edible: Safflower
Oil, edible: Salad
Oil, edible: Sesame
Oil, edible: Soya bean

Oil, edible: Sunflower seed

Oil, edible: Tucum Oil, edible: Vegetable Oil, edible: Walnut

# Other Oils of Animal or Vegetable Origin

Animal and Fish oils, n.o.s.

Animal and fish acids oils and distillates, n.o.

S.

Camphor oil

Cashew nut shell oil

(untreated) Creosote (wood) Fatty acid (saturated, C 13+)

Fatty acid amides Oil, misc: Animal

Oil, misc: Coconut, fatty acid methyl

ester

Oil, misc: Coconut oil, fatty acid Oil, misc: Cottonseed oil, fatty acid

Oil, misc: Lanolin Oil, misc: Linseed Oil, misc: Neatsfoot Oil, misc: Oiticica

Oil, misc: Palm oil, fatty acid methyl ester

Oil, misc: Perilla
Oil, misc: Pilchard
Oil, misc: Pine
Oil, misc: Rosin
Oil, misc: Soapstock
Oil, misc: Soybean

(epoxidized) Oil, misc: Sperm

Oil, misc: Tall

Oil, misc: Tall, fatty acid

Oil, misc: Tallow Oil, misc: Tung Oil, misc: Whale Palm kernel acid oil

Palm kernel acid oil, methyl

ester Palm Olein Palm Stearin

Palm Fatty Acid Distillate

Tallow fatty acid Tallow nitrile Turpentine

Vegetable acid oils and distillates, n. o. s.

Vegetable oils, n. o. s.

#### Other Non-Petroleum Oils

Anthracene oil (Coal tar fraction)

Coaltar

Coal tar pitch (molten)

Creosote (Coal tar)

Naphtha: Coal tar solvent

Polydimethylsiloxane

# **Lube-Oil Additives**

Alkaryl polyether (C9-C20)

Alkenyl (C11+) amide

Alkyl (C8+) amine, alkenyl (C12+) acid ester mixture

Alkyl (C11-C17) benzene sulfonic acid

Alkylbenzene sulfonic acid, sodium salt solution

Alkyl dithiothiadiazole (C6-C24)

Alkyl (C8-C40) phenol sulfide

Alkyl (C8-C9) phenylamine in aromatic solvents Alkyl (C1O-C20), saturated and unsaturated) phosphite

Aryl polyolefin (C11-C50)

Calcium alkyl (C9) phenol sulfide, polyolefin

phosphorosulfide mixture

Calcium long chain alkaryl sulfonate (C11-C50)

Calcium long chain alkyl (C5-C10) phenate Calcium long chain alkyl (C11-C40) phenate

Calcium long chain alkyl phenate sulfide (C8-

Calcium long chain alkyl salicylate (C13+)
Calcium long chain alkyl phenolic amine (C8-C40)

Chlorinated paraffins (C18+) with any level of chlorine

Dialkyl (C8-C9) diphenylamines

Dibutyl hydrogen phosphonate

Diphenylamine, reaction product with 2, 2, 4-

Trimethylpentene

Diphenylamines, alkylated

Dodecyl hydroxypropyl sulfide

Glycerol monooleate

Long chain alkaryl polyether (C11-C20)

Long chain alkaryl sulfonic acid (C16-C60)

Long chain alkylphenate/Phenol sulfide mixture Magnesium long chain alkaryl sulfonate (C11-C50)

Magnesium long chain alkyl salicylate (C11+) Olefin/Alkyl ester copolymer (molecular weight 2000+)

Oleylamine

Phosphate esters, alkyl (C12-C14) amine

Polyalkyl (C1O-C20) methacrylate

Polyether (molecular weight 2000+)

Polyether, borated

Polyisobutenyl anhydride adduct

Polyolefin (molecular weight 300+)

Polyolefin amide alkeneamine (C28+)

Polyolefin amide alkeneamine borate (C28-C250)

Polyolefin amide alkeneamine molybdenum oxysulfide mixture

Polyolefin amide alkeneamine polyol

Polyolefinamine (C28-C250)

Polyolefinamine in alkyl (C2-C4)

benzenes Polyolefin aminoester salt

Polyolefin anydride

Polyolefin ester (C28-

C250)

Polyolefin phenolic amine (C28-C250)

Polyolefin phosphorosulf ide - Barium

derivative (C28-C250)

Sodium petroleum sulfonate

Sulfohydrocarbon (C3-C88)

Sulfohydrocarbon , long chain (C18+\_ alkylamine mixture

Sulfurized fat (C14-C20)

Sulfurized polyolefinamide alkene (C28-C250) amine

Tall oilfatty acid, barium salts

Zinc alkaryl dithiophosphate (C7-C16)

Zinc alkyl dithiophosphate (C3-C14)

#### **Alcohols**

All alcohols except allyl alcohol, isobutyl alcohol, and propargyl alcohol.

# **Ethers**

All ethers except except vinyl ethers, glycol ethers, epoxides, and other ringed oxide compounds such as ketenes, furans, and pyrans.

#### **Esters**

All esters except acrylates, methacrylates, allyl acetate, vinyl acetate, isopropyl formate.

# **Ketones**

All ketones except except vinyl ethers, glycol ethers, epoxides, and other ringed oxide compounds such as ketenes, furans, and pyrans.

# Acids

Sulfuric acid Hydrochloric acid

## **Bases**

Sodium hydroxide Sodium hydroxide solutions

# Liquid Fertilizers

Nitrogen solution (UAN)

Ammonium polyphosphate solution

Phosphoric acid

Ammonium thiosulphate





ATERIAL

AFETY

HEET

GENERAL INFORMATION

PRODUCT NAME:

**BLR 58N** 

DISTRIBUTOR'S ADDRESS:

ZEE Company, Inc. 4146 South Creek Road Chattanooga, TN 37406

24 HOUR EMERGENCY PHONE:

1-800-424-9300

TRADE NAME:

SLUDGE CONDITIONER, ALKALINITY BUILDER, OXYGEN

SCAVENGER

CHEMICAL FORMULA:

**PROPRIETARY** 

CHEMICAL FAMILY:

BOILER WATER TREATMENT

HEALTH	2
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	С

HAZARDOUS INGREDIENTS 11.

% OF

PRINCIPAL HAZARDOUS INGREDIENT(S):

PRODUCT

PEL / TLV

CAS NO.

SODIUM HYDROXIDE

<20

PEL: 2 MG/M3: 8

1310-73-2

HOUR TWA:TLV 2MG/

CU METER CEILING

SODIUM BISULFITE

<10

PEL:5 MG/M3:8

7631-90-5

HOUR TWA

III. PHYSICAL DATA

BOILING POINT (F):

>250 °F

SPECIFIC GRAVITY (H20=1):

1.15

VAPOR PRESSURE:

ΝE

PERCENT VOLATILE BY WEIGHT (%)

NON VOLATILE

VAPOR DENSITY:

NE

MELTING / FREEZING POINT (F):

NE

SOLUBILITY IN WATER:

COMPLETE

APPROXIMATELY 13.5

APPEARANCE AND ODOR:

BROWN VISCOUS LIQUID; NO SPECIFIC ODOR

IV. FIRE AND EXPLOSION DATA

FLASH POINT:

N/A

FLAMMABLE LIMITS IN AIR, VOLUME PERCENTAGE (%):

**AUTO IGNITION TEMPERATURE:** 

ΝE

UPPER:

LOWER:

EXTINGUISHER MEDIA:

AS USED ON SURROUNDING FIRE

SPECIAL FIRE FIGHTING PROCEDURES:

WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS. ADDING WATER TO BLR 58N MAY GENERATE SOME HEAT. HOWEVER, WATER MAY BE

USED TO COOL FIRE-EXPOSED CONTAINERS.

UNUSUAL FIRE/EXPLOSION HAZARDS:

NONE

٧. PHYSICAL HAZARDS

STABILITY:

STA8LE

CONDITIONS TO AVOID:

NONE

MATERIALS TO AVOID:

ACIDS, PEROXIDES, ORGANIC HALOGENATED COMPOUNDS

HAZ. POLYMERIZATION:

WILL NOT OCCUR

CONDITIONS TO AVOID:

NONE

HAZARDOUS DECOMPOSITION PRODUCTS:

HYDROGEN GAS IF CONTACTED BY TIN, ZINC, ALUMINUM

VI. **HEALTH HAZARDS** 

ACUTE: **IRRITANT**  CHRONIC:

NONE

SIGNS AND SYMPTOMS OF EXPOSURE:

BLR 58N CAN CAUSE SEVERE SKIN IRRITATION AND RAPID DESTRUCTION OF EYE

TISSUE

MEDICAL CONDITIONS GENERALLY

AGGREVATED BY EXPOSURE:

INHALING BLR 58N MISTS CAN CAUSE DAMAGE TO UPPER RESPIRATORY TRACT.

LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

IARC: NO

NATIONAL TOXICOLOGY PROGRAM:

NO

VII. EMERGENCY AND FIRST AID PROCEDURES

TREAT SYSTEMATICALLY AS OUTLINED BELOW:

INHALATION:

IF AFFECTED, REMOVE PERSON TO FRESH AIR. IF BREATHING STOPS, ADMINISTER ARTIFICIAL RESPIRATION. SEEK

MEDICAL ATTENTION IMMEDIATELY.

SKIN:

THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. CONSULT A PHYSICIAN IF IRRITATION OCCURS.

EYES:

FLUSH WITH CLEAN WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER EYE LIDS OCCASIONALLY. GET

MEDICAL ATTENTION.

INGESTION:

IF PERSON IS CONSCIOUS, GIVE WATER TO DILUTE. DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION

IMMEDIATELY.

VIII ENVIRONMENTAL DATA: SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

LARGE AND SMALL SPILL:

SMALL SPILL: FLUSH TO WASTE WITH LARGE QUANTITIES OF WATER. LARGE SPILL: COMPLETELY CONTAIN ALL SPILLED MATERIAL. ABSORB ONTO INERT COMPOUND AND RECLAIM TO A CLOSED DOT APPROVED CONTAINER, RESIDUE MAY BE FLUSHED TO WASTE WITH LARGE QUANTITIES OF WATER.

SEE SECTION X FOR MORE REGULATORY INFORMATION.

SEE SECTION X FOR MORE REGULATORY INFORMATION.

WASTE DISPOSAL METHODS:

WASTE DISPOSAL METHODS: DISPOSAL: DISPOSE OF CONTAMINATED PRODUCT VIA AN APPROVED CHEMICAL WASTE DISPOSAL FIRM AND IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL

REGULATIONS.

IX. CONTROL MEASURES

RESPIRATORY PROTECTION:

NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS FOR EXPOSURES ABOVE OSHA PEL

VENTILATION:

LOCAL EXHAUST PREFERRED

PROTECTIVE GLOVES:

NEOPRENE

EYE PROTECTION:

CHEMICAL SPLASH GOGGLES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

IMPERVIOUS CLOTHING: SAFETY SHOWER AND EYE WASH FOUNTAIN.

WORK/HYGENIC PRACTICES:

REMOVE ANY CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE.

OTHER:

PREVENT BLR 58N FROM FREEZING, FREEZES AT 35 °F.

REGULATORY INFORMATION

DOT SHIPPING NAME:

CORROSIVE LIQUIDS, N.O.S. (SODIUM HYDROXIDE), 8, UN 1760, PG II

HAZARD CLASSIFICATION:

CORROSIVE

UN / NA NUMBER:

UN 1760

DOT LABEL REQUIRED:

CORROSIVE

SECTION 312: X

SECTION 313:

N/A

SARA TITLE III REPORTING:

SECTION 311: N/A

Χ

SARA 313 REPORTABLE PRODUCT:

N/A

994 GALLONS DUE TO SODIUM HYDROXIDE CONTENT.

HMIS RATING:

PREPARED BY:

SARA TPO:

CERCLA REPORTABLE QUANTITY OF PRODUCT: HEALTH

FLAMMABILITY

0

REACTIVITY

DATE PREPARED:

FEBRUARY 2003 CHRIS BUNCH

NE = Not Established

N/A = Not Applicable

NR = Not Required

< = Less Than

> = Greater Than

THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM SOURCES BELIEVED TO BE RELIABLE AND IS OFFERED IN GOOD FAITH AS ACCURATE, BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT.



M ATERIAL S AFETY

D ATA

S HEET

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0

0

C

GENERAL INFORMATION

PRODUCT NAME:

**BLR 10** 

DISTRIBUTOR'S ADDRESS:

ZEE Company, Inc. 4146 South Creek Road Chattanooga, TN 37406

24 HOUR EMERGENCY PHONE:

1-800-424-9300

TRADE NAME:

SLUDGE CONDITIONER

CHEMICAL FORMULA:

**PROPRIETARY** 

CHEMICAL FAMILY:

BOILER WATER TREATMENT

HAZARDOUS INGREDIENTS

% OF

PRINCIPAL HAZARDOUS INGREDIENT(S):

**PRODUCT** 

PEL / TLV

CAS NO.

SODIUM HEXAMETAPHOSPHATE

<20

NO PEL OR TLV EST.

HEALTH

FLAMMABILITY

REACTIVITY

PERSONAL

**PROTECTION** 

68915-31-1

III. PHYSICAL DATA

BOILING POINT (F):

>240(F)

SPECIFIC GRAVITY (H20=1):

1.141

VAPOR PRESSURE:

NE

PERCENT VOLATILE BY WEIGHT (%)

NON VOLATILE

VAPOR DENSITY:

NE

MELTING / FREEZING POINT (F):

NA

SOLUBILITY IN WATER:

COMPLETE

PH:

APPROXIMATELY 6.5

APPEARANCE AND ODOR:

CLEAR TO AMBER LIQUID, NO ODOR.

IV. FIRE AND EXPLOSION DATA

FLASH POINT:

N/A

FLAMMABLE LIMITS IN AIR, VOLUME PERCENTAGE (%):

**AUTO IGNITION TEMPERATURE:** 

NA

UPPER: N/A LOWER:

**EXTINGUISHER MEDIA:** 

AS USED ON SURROUNDING FIRE

SPECIAL FIRE FIGHTING PROCEDURES:

FIREFIGHTERS SHOULD WEAR ALL PROTECTIVE CLOTHING AND EQUIPMENT.

UNUSUAL FIRE/EXPLOSION HAZARDS:

NONE

٧. PHYSICAL HAZARDS

STABILITY:

STABLE

CONDITIONS TO AVOID:

NONE

MATERIALS TO AVOID: HAZ. POLYMERIZATION: STRONG ALKALINE SOLUTIONS.

WILL NOT OCCUR

CONDITIONS TO AVOID:

NONE

HAZARDOUS DECOMPOSITION PRODUCTS:

NONE

**BLR 10** PAGE 1 VI. **HEALTH HAZARDS** 

ACUTE: NONE CHRONIC:

NONE

SIGNS AND SYMPTOMS OF EXPOSURE:

BLR 10 IS NOT CONSIDERED TO BE A HAZARDOUS CHEMICAL AND NO EFFECTS TO

OVEREXPOSURE ARE KNOWN.

MEDICAL CONDITIONS GENERALLY

AGGREVATED BY EXPOSURE:

NONE CURRENTLY KNOWN

LISTED AS POTENTIAL CARCINOGEN/POTENTIAL CARCINOGEN:

IARC:

NO

NATIONAL TOXICOLOGY PROGRAM:

NO

**EMERGENCY AND FIRST AID PROCEDURES** 

TREAT SYSTEMATICALLY AS OUTLINED BELOW: INHALATION:

IF AFFECTED, REMOVE PERSON TO FRESH AIR. CONSULT A PHYSICIAN IF BREATHING DIFFICULTY OCCURS.

SKIN:

THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. CONSULT A PHYSICIAN IF IRRITATION OCCURS.

EYES:

FLUSH WITH CLEAN WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER EYE LIDS OCCASIONALLY. GET

MEDICAL ATTENTION.

INGESTION:

IF PERSON IS CONSCIOUS, GIVE WATER TO DILUTE. INDUCE VOMITING. SEEK MEDICAL ATTENTION IMMEDIATELY.

VIII. ENVIRONMENTAL DATA: SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

LARGE AND SMALL SPILL:

SMALL SPILL: FLUSH TO WASTE WITH LARGE QUANTITIES OF WATER. LARGE SPILL: TAKE UP WITH AN ABSORBENT MATERIAL AND RECLAIM TO A CLOSED DOT APPROVED CONTAINER. FLUSH RESIDUE TO WASTE WITH LARGE QUANTITIES OF WATER. SEE SECTION X FOR MORE REGULATORY INFORMATION.

SEE SECTION X FOR MORE REGULATORY INFORMATION.

WASTE DISPOSAL METHODS:

WASTE DISPOSAL METHODS: INCINERATE, LANDFILL OR FLUSH TO WASTE IN ACCORDANCE WITH

APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

IX. CONTROL MEASURES

RESPIRATORY PROTECTION:

NONE GENERALLY REQUIRED.

VENTILATION:

MECHANICAL (GENERAL) ADEQUATE RUBBER

PROTECTIVE GLOVES: EYE PROTECTION:

SAFETY GLASSES OR GOGGLES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

IMPERVIOUS CLOTHING, I.E. APRONS, BOOTS TO MINIMIZE CONTACT.

WORK/HYGENIC PRACTICES:

LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

OTHER:

SAFETY SHOWER AND EYE WASH FOUNTAIN.

REGULATORY INFORMATION

DOT SHIPPING NAME:

COMPOUND, BOILER CLEANSING, PRESERVING, SCALE REMOVING LIQUID

HAZARD CLASSIFICATION:

NA

UN / NA NUMBER:

0

NR

DOT LABEL REQUIRED:

NR

SARA TITLE III REPORTING:

SECTION 311:

SECTION 312:

SECTION 313: NA

NA

SARA 313 REPORTABLE PRODUCT:

NA

Ð

SARA TPQ: HMIS RATING:

CERCLA REPORTABLE QUANTITY OF PRODUCT:

NA FLAMMABILITY

REACTIVITY

0

DATE PREPARED:

HEALTH JUNE 2002

PREPARED BY:

CHRIS BUNCH

NE = Not Established

N/A = Not Applicable

NR = Not Required

< = Less Than

> = Greater Than

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i.	GENERAL	INFORMATION
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PRODUCT NAME:

**BLR 51** 

DISTRIBUTOR'S ADDRESS:

ZEE Company, Inc. 4146 South Creek Road Chattanooga, TN 37406

24 HOUR EMERGENCY PHONE:

1-800-424-9300

TRADE NAME:

SLUDGE CONDITIONER, ALKALINITY BUILDER OXYGEN

**SCAVENGER** 

CHEMICAL FORMULA:

PROPRIETARY

CHEMICAL FAMILY:

BOILER WATER TREATMENT

HEALTH	2
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	С

II. HAZARDOUS INGREDIENTS		
	% OF	•

PRINCIPAL HAZARDOUS INGREDIENT(S): PRODUCT PEL / TLV CAS NO. TLV:2MG/M3:8HR, TW 1310-58-3 POTASSIUM HYDROXIDE <15 NO PEL ESTABLISHE <5 PEL:5MG/CU METER: 7631-90-5 SODIUM BISULFITE

**HOUR TWA** NO PEL OR TLV EST. 7758-29-4 SODIUM TRIPOLYPHOSPHATE <5

III. PHYSICAL DATA

BOILING POINT (F):

>250(F)

SPECIFIC GRAVITY (H20=1):

1.108

VAPOR PRESSURE:

NE

PERCENT VOLATILE BY WEIGHT (%)

NON VOLATILE

VAPOR DENSITY:

NE

SOLUBILITY IN WATER:

MELTING / FREEZING POINT (F):

NA

COMPLETE

PH:

APPROXIMATELY 13.5

APPEARANCE AND ODOR:

BROWN VISCOUS LIQUID; NO SPECIFIC ODOR

IV. FIRE AND EXPLOSION DATA

FLASH POINT:

N/A

FLAMMABLE LIMITS IN AIR, VOLUME PERCENTAGE (%):

AUTO IGNITION TEMPERATURE:

NA

UPPER: N/A LOWER:

EXTINGUISHER MEDIA: SPECIAL FIRE FIGHTING PROCEDURES: AS USED ON SURROUNDING FIRE

WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.

ADDING WATER TO BLR 51 MAY GENERATE SOME HEAT. HOWEVER, WATER MAY BE USED

TO COOL FIRE-EXPOSED CONTAINERS.

UNUSUAL FIRE/EXPLOSION HAZARDS:

NONE

٧. PHYSICAL HAZARDS

STABILITY:

STABLE

CONDITIONS TO AVOID:

NONE

MATERIALS TO AVOID: HAZ. POLYMERIZATION:

WILL NOT OCCUR

ACIDS, PEROXIDES, ORGANIC HALOGENATED COMPOUNDS

HAZARDOUS DECOMPOSITION PRODUCTS:

CONDITIONS TO AVOID:

HYDROGEN GAS IF CONTACTED BY TIN, ZINC, ALUMINUM

VI. **HEALTH HAZARDS** 

ACUTE: IRRITANT CHRONIC:

NONE

SIGNS AND SYMPTOMS OF EXPOSURE:

BLR 51 CAN CAUSE SEVERE SKIN IRRITATION AND RAPID DESTRUCTION OF EYE

TISSUE.

MEDICAL CONDITIONS GENERALLY

AGGREVATED BY EXPOSURE:

INHALING BLR 51 MISTS CAN CAUSE DAMAGE TO UPPER RESPIRATORY TRACT.

NO

LISTED AS POTENTIAL CARCINOGEN/POTENTIAL CARCINOGEN:

IARC:

NATIONAL TOXICOLOGY PROGRAM:

NO

VII. **EMERGENCY AND FIRST AID PROCEDURES** 

TREAT SYSTEMATICALLY AS OUTLINED BELOW:

INHALATION:

IF AFFECTED, REMOVE PERSON TO FRESH AIR. IF BREATHING STOPS, ADMINISTER ARTIFICIAL RESPIRATION. SEEK

MEDICAL ATTENTION IMMEDIATELY.

SKIN:

THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. CONSULT A PHYSICIAN IF IRRITATION OCCURS.

EYES:

FLUSH WITH CLEAN WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER EYE LIDS OCCASIONALLY, GET

MEDICAL ATTENTION.

INGESTION:

IF PERSON IS CONSCIOUS, GIVE WATER TO DILUTE. DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION

VIII. ENVIRONMENTAL DATA: SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

LARGE AND SMALL SPILL:

SMALL SPILL: FLUSH TO WASTE WITH LARGE QUANTITIES OF WATER. LARGE SPILL: COMPLETELY CONTAIN ALL SPILLED MATERIAL. ABSORB ONTO INERT COMPOUND AND RECLAIM TO A CLOSED DOT APPROVED CONTAINER, RESIDUE MAY BE FLUSHED TO WASTE WITH LARGE QUANTITIES OF WATER.

SEE SECTION X FOR MORE REGULATORY INFORMATION.

SEE SECTION X FOR MORE REGULATORY INFORMATION.

WASTE DISPOSAL METHODS:

WASTE DISPOSAL METHODS: DISPOSAL: DISPOSE OF CONTAMINATED PRODUCT VIA AN APPROVED CHEMICAL WASTE DISPOSAL FIRM AND IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL

REGULATIONS.

IX. CONTROL MEASURES

RESPIRATORY PROTECTION:

NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS FOR EXPOSURES ABOVE OSHA PEL.

VENTILATION:

LOCAL EXHAUST PREFERRED NEOPRENE

PROTECTIVE GLOVES:

EYE PROTECTION:

CHEMICAL SPLASH GOGGLES

IMPERVIOUS CLOTHING: SAFETY SHOWER AND EYE WASH FOUNTAIN.

WORK/HYGENIC PRACTICES:

REMOVE ANY CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE.

OTHER:

PREVENT BLR 51 FROM FREEZING, FREEZES AT 35 (F).

X. REGULATORY INFORMATION

DOT SHIPPING NAME:

CORROSIVE LIQUID, N.O.S., (POTASSIUM HYDROXIDE), 8, UN 1760, PG II

HAZARD CLASSIFICATION:

CORROSIVE

UN / NA NUMBER:

UN 1760

SECTION 313:

DOT LABEL REQUIRED:

CORROSIVE

SECTION 311:

SECTION 312:

X

NA

SARA TITLE III REPORTING: SARA 313 REPORTABLE PRODUCT:

NA

SARA TPO:

NA

CERCLA REPORTABLE QUANTITY OF PRODUCT:

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

1615 GALLONS DUE TO POTASSIUM HYDROXIDE CONTENT.

HMIS RATING:

HEALTH

2

FLAMMABILITY

0

REACTIVITY

DATE PREPARED: PREPARED BY:

FEBRUARY 2003 CHRIS BUNCH

NE = Not Established

N/A = Not Applicable

NR = Not Required

< = Less Than

> = Greater Than

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GENERAL INFORMATION

PRODUCT NAME:

STEAM 145

DISTRIBUTOR'S ADDRESS:

ZEE Company, Inc. 4146 South Creek Road Chattanooga, TN 37406

24 HOUR EMERGENCY PHONE:

1-800-424-9300

TRADE NAME:

NEUTRALIZING AMINE

CHEMICAL FORMULA:

**PROPRIETARY** 

CHEMICAL FAMILY:

**BOILER WATER TREATMENT** 

MA ZARDONIS	INGREDIENTS
THEATHCUCH	INGREDIENIA

% OF

PRINCIPAL HAZARDOUS INGREDIENT(S):

**PRODUCT** 

PEL / TLV

CAS NO.

MORPHOLINE

CYCLOHEXYLAMINE

11.

<20

PEL:20PPM-8HR

110-91-8

TLV:20PPM-8HR PEL/TLV:10PPM-8HR

108-91-8

DIETHYLETHANOLAMINE

<20 <20

41MG/M(3)PER 8HRT

HEALTH

FLAMMABILITY

REACTIVITY

**PERSONAL** 

**PROTECTION** 

100-37-8

PEL:10PPM:TLV48MG

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE U.S. TSCA INVENTORY.

111. PHYSICAL DATA

BOILING POINT (F):

>270(F)

SPECIFIC GRAVITY (H20=1):

0.985

VAPOR PRESSURE:

NE

PERCENT VOLATILE BY WEIGHT (%)

100

VAPOR DENSITY:

>3.00

MELTING / FREEZING POINT (F):

N/A

SOLUBILITY IN WATER:

COMPLETE

PH:

APPEARANCE AND ODOR:

CLEAR TO YELLOW LIQUID

APPROXIMATELY 12.0

#### IV. FIRE AND EXPLOSION DATA

FLASH POINT:

N/A

UPPER:

FLAMMABLE LIMITS IN AIR, VOLUME PERCENTAGE (%): LOWER:

AUTO IGNITION TEMPERATURE: EXTINGUISHER MEDIA:

NE

SPECIAL FIRE FIGHTING PROCEDURES:

AS USED ON SURROUNDING FIRE

FIRE FIGHTERS SHOULD WEAR FULL PROTECTIVE CLOTHING WITH SELF-CONTAINED

BREATHING APPARATUS WHEN FIGHTING FIRES INVOLVING STEAM 145.

UNUSUAL FIRE/EXPLOSION HAZARDS:

STEAM 145 CONTAINS FLAMMABLE MATERIALS. COOL CONTAINERS FROM SIDE WITH

WATER UNTIL FIRE IS OUT.

٧. PHYSICAL HAZARDS

STABILITY:

STABLE

CONDITIONS TO AVOID:

**EXTREME HEAT** 

MATERIALS TO AVOID:

OXIDIZING MATERIALS AND MINERAL ACIDS.

NA

HAZ POLYMERIZATION: HAZARDOUS DECOMPOSITION PRODUCTS: WILL NOT OCCUR

CONDITIONS TO AVOID:

CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES

VI. HEALTH HAZARDS

ACUTE: IRRITANT

CHRONIC:

NONE

SIGNS AND SYMPTOMS OF EXPOSURE:

REPEATED AND PROLONGED CONTACT WITH STEAM 145 MAY RESULT IN SKIN AND

EYE IRRITATION AND POSSIBLE TISSUE INJURY.

MEDICAL CONDITIONS GENERALLY

AGGREVATED BY EXPOSURE:

EXCESSIVE BREATHING OF STEAM 145 VAPORS OR MISTS MAY IRRITATE AIR

PASSAGES AND PRE-EXISTING MEDICAL CONDITIONS.

LISTED AS POTENTIAL CARCINOGEN/POTENTIAL CARCINOGEN:

IARC: NO

NATIONAL TOXICOLOGY PROGRAM:

NO

VII. EMERGENCY AND FIRST AID PROCEDURES
TREAT SYSTEMATICALLY AS OUTLINED BELOW:

INHALATION:

IF AFFECTED, REMOVE PERSON TO FRESH AIR. IF BREATHING STOPS, ADMINISTER ARTIFICIAL RESPIRATION. SEEK

MEDICAL ATTENTION.

SKIN:

THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. CONSULT A PHYSICIAN IF IRRITATION OCCURS.

EYES:

FLUSH WITH CLEAN WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER EYE LIDS OCCASIONALLY. GET

MEDICAL ATTENTION IMMEDIATELY.

INGESTION:

IF PERSON IS CONSCIOUS, GIVE WATER TO DILUTE, DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION

IMMEDIATELY.

VIII. ENVIRONMENTAL DATA: SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

LARGE AND SMALL SPILL:

LARGE AND SMALL SPILL: COMPLETELY CONTAIN ALL SPILLED MATERIAL. ABSORB ONTO INERT COMPOUND AND RECLAIM TO A CLOSED DOT APPROVED CONTAINER. RESIDUE MAY BE FLUSHED TO

WASTE WITH LARGE QUANTITIES OF WATER. SEE SECTION X FOR MORE REGULATORY INFORMATION.

SEE SECTION X FOR MORE REGULATORY INFORMATION.

WASTE DISPOSAL METHODS:

WASTE DISPOSAL METHODS: DISPOSE OF CONTAMINATED PRODUCT VIA AN APPROVED CHEMICAL

WASTE DISPOSAL FIRM AND IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

IX. CONTROL MEASURES

RESPIRATORY PROTECTION:

NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR FOR EXPOSURES ABOVE OSHA PEL.

VENTILATION:

LOCAL EXHAUST: PREFERRED RUBBER RECOMMENDED

PROTECTIVE GLOVES:

CHEMICAL SPLASH GOGGLES

EYE PROTECTION:

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: IMPERVIOUS CLOTHING: IE. BOOTS, APRONS.

....

CONTAMINATED CLOTHING SHOULD BE LAUNDERED BEFORE REUSE.

WORK/HYGENIC PRACTICES: OTHER:

SAFETY SHOWER AND EYE WASH STATIONS SHOULD BE PROVIDED.

X. REGULATORY INFORMATION

DOT SHIPPING NAME:

AMINES LIQUID, CORROSIVE, N.O.S., (MORPHOLINE, CYCLOHEXYLAMINE), 8, UN 2735, PG 11

HAZARD CLASSIFICATION:

CORROSIVE

UN / NA NUMBER:

UN 2735

DOT LABEL REQUIRED: SARA TITLE III REPORTING: CORROSIVE

SECTION 311:

SECTION 312:

X SECTION 313:

NA

SARA 313 REPORTABLE PRODUCT:

SARA TPQ:

6280 GALLONS DUE TO CYCLOHEXYLAMINE CONTENT.

CERCLA REPORTABLE QUANTITY OF PRODUCT:

NA

HMIS RATING:

HEALTH

FLAMMABILITY

1

REACTIVITY

1

DATE PREPARED: PREPARED BY:

SEPTEMBER 2006
JAMES MULL OY

NE = Not Established

N/A = Not Applicable

NR = Not Required

< = Less Than

> = Greater Than

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GENERAL INFORMATION

PRODUCT NAME:

FEEDW 4

DISTRIBUTOR'S ADDRESS:

ZEE Company, Inc. 4146 South Creek Road Chattanooga, TN 37406

24 HOUR EMERGENCY PHONE:

1-800-424-9300

TRADE NAME:

**OXYGEN SCAVENGER** 

CHEMICAL FORMULA:

PROPRIETARY

CHEMICAL FAMILY:

**BOILER WATER TREATMENT** 

HAZARDOUS INGREDIENTS

% OF

PRINCIPAL HAZARDOUS INGREDIENT(S):

**PRODUCT** 

PEL / TLV

CAS NO.

SODIUM BISULFITE

<40

PEL:5MG/CUBIC METE

7631-90-5

PER 8 HR. TWA

POTASSIUM HYDROXIDE

<5

TLV:WMG/CUBIC MET

HEALTH

FLAMMABILITY

REACTIVITY

PERSONAL

**PROTECTION** 

1310-58-3

CEILING

PEL:2 MG/CUBIC MET

111. PHYSICAL DATA

BOILING POINT (F):

>240(F)

SPECIFIC GRAVITY (H20=1):

1.25

**VAPOR PRESSURE:** 

NE

PERCENT VOLATILE BY WEIGHT (%)

54

VAPOR DENSITY:

NE

MELTING / FREEZING POINT (F):

SOLUBILITY IN WATER:

NA

COMPLETE

PH:

APPROXIMATELY 6.0

APPEARANCE AND ODOR:

CLEAR TO AMBER LIQUID, PUNGENT ODOR

١٧. FIRE AND EXPLOSION DATA

FLASH POINT:

N/A

FLAMMABLE LIMITS IN AIR, VOLUME PERCENTAGE (%):

**AUTO IGNITION TEMPERATURE:** 

NA

UPPER:

LOWER:

**EXTINGUISHER MEDIA:** 

AS USED ON SURROUNDING FIRE

SPECIAL FIRE FIGHTING PROCEDURES:

WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.

WATER MAY BE USED TO KEEP FIRE-EXPOSED CONTAINERS COOL UNTIL FIRE IS OUT.

UNUSUAL FIRE/EXPLOSION HAZARDS:

NONE

٧. PHYSICAL HAZARDS

STABILITY:

STABLE

CONDITIONS TO AVOID:

EXTREME HEAT

MATERIALS TO AVOID: HAZ. POLYMERIZATION:

ACIDS, OXIDIZING AGENTS WILL NOT OCCUR CONDITIONS TO AVOID:

NONE

HAZARDOUS DECOMPOSITION PRODUCTS:

SULFUR DIOXIDE

FEEDW 4

PAGE 1

VI. **HEALTH HAZARDS** 

ACUTE: **IRRITANT**  CHRONIC:

NONE

SIGNS AND SYMPTOMS OF EXPOSURE:

FEEDW 4 MAY IRRITATE SKIN ON PROLONGED CONTACT, EYE CONTACT MAY CAUSE

SEVERE INJURY, IRRITANT TO NOSE, THROAT AND LUNGS.

MEDICAL CONDITIONS GENERALLY

AGGREVATED BY EXPOSURE:

INHALATION OF FEEDW 4 MAY IRRITATE MUCOUS MEMBRANES.

LISTED AS POTENTIAL CARCINOGEN/POTENTIAL CARCINOGEN:

IARC: NO

NATIONAL TOXICOLOGY PROGRAM:

NO

**EMERGENCY AND FIRST AID PROCEDURES** 

TREAT SYSTEMATICALLY AS OUTLINED BELOW: INHALATION:

IF AFFECTED, REMOVE PERSON TO FRESH AIR. CONSULT A PHYSICIAN IF BREATHING DIFFICULTY OCCURS.

SKIN:

THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. CONSULT A PHYSICIAN IF IRRITATION OCCURS.

EYES:

FLUSH WITH CLEAN WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER EYE LIDS OCCASIONALLY. GET

MEDICAL ATTENTION.

INGESTION:

IF PERSON IS CONSCIOUS, GIVE WATER TO DILUTE. DO NOT INDUCE VOMITING, SEEK MEDICAL ATTENTION

IMMEDIATELY.

VIII. ENVIRONMENTAL DATA: SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

LARGE AND SMALL SPILL:

SMALL SPILL: FLUSH TO WASTE WITH LARGE QUANTITIES OF WATER. LARGE SPILL: COMPLETELY CONTAIN ALL SPILLED MATERIAL. ABSORB ONTO INERT COMPOUND AND RECLAIM TO A CLOSED DOT APPROVED CONTAINER. RESIDUE MAY BE FLUSHED TO WASTE WITH LARGE QUANTITIES OF WATER. SEE SECTION X FOR MORE REGULATORY INFORMATION.

SEE SECTION X FOR MORE REGULATORY INFORMATION.

WASTE DISPOSAL METHODS:

DISPOSAL: DISPOSE OF CONTAMINATED PRODUCT VIA AN APPROVED CHEMICAL WASTE DISPOSAL

FIRM AND IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

IX. CONTROL MEASURES

RESPIRATORY PROTECTION:

NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS FOR EXPOSURES ABOVE OSHA PEL.

VENTILATION: PROTECTIVE GLOVES: LOCAL EXHAUST PREFERRED NEOPRENE OR RUBBER CHEMICAL SPLASH GOGGLES

EYE PROTECTION:

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

IMPERVIOUS CLOTHING, I.E. APRONS, BOOTS RECOMMENDED

WORK/HYGENIC PRACTICES:

REMOVE ANY CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE.

OTHER:

EYE WASH STATION AND SAFETY SHOWER.

REGULATORY INFORMATION

DOT SHIPPING NAME:

CORROSIVE LIQUIDS, N.O.S., (SODIUM BISULFITE, POTASSIUM HYDROXIDE), 8, UN 1760, PG III

HAZARD CLASSIFICATION:

**CORROSIVE** 

UN / NA NUMBER:

UN 1760

DOT LABEL REQUIRED: SARA TITLE III REPORTING: CORROSIVE

SECTION 311:

SECTION 312:

SECTION 313:

Х

NA

SARA 313 REPORTABLE PRODUCT:

NA

SARA TPO:

CERCLA REPORTABLE QUANTITY OF PRODUCT:

1692 GALLONS BASED ON SODIUM BISULFITE CONTENT.

HMIS RATING:

HEALTH

FLAMMABILITY

0

REACTIVITY

DATE PREPARED: PREPARED BY:

OCTOBER 2003 CHRIS BUNCH

NE = Not Established

N/A = Not Applicable

NR = Not Required

< = Less Than

> = Greater Than

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# MATERIAL SAFETY DATA SHEET

Date Issued: 11/16/2006 MSDS No: WBL80 Date Revised: 11/16/2006

**Revision No: 1** 

#### **BLR-ALK**

# 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BLR-ALK

PRODUCT DESCRIPTION: Industrial Water Treatment Compound

**PRODUCT CODE: WBL80B** 

PRODUCT FORMULATION NAME: BLR-ALK ACTIVE INGREDIENT(S): Sodium hydroxide

#### MANUFACTURER

# 24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (800) 424-9300

Zee Company, Inc. 4146 South Creek Road Chattanooga TN 37406

Emergency Contact: James A. Faller Service Number: (423) 698-1401

#### 2. HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

IMMEDIATE CONCERNS: Extremely corrosive to eyes and can cause corneal burns.

#### POTENTIAL HEALTH EFFECTS

EYES: Corrosive. Will cause eye burns and permanent tissue damage.

**SKIN:** Corrosive. Causes skin burning.

**INGESTION:** Harmful or fatal if swallowed.

**INHALATION:** Irritating

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Very painful burning. Immediate destruction of eye tissues may occur on contact.

SKIN: Burning, reddening, swelling of tissues.

INGESTION: Burning of mouth, esophageal and stomach tissues. Nausea.

INHALATION: Severe irritation of respiratory system and difficulty in breathing.

**ACUTE TOXICITY:** This product is corrosive to eyes, skin and mucous membranes. Contact with this product or its dilutions may cause immediate damage to eye tissues. Harmful or fatal if swallowed.

CHRONIC EFFECTS: None known
CARCINOGENICITY: None known
MUTAGENICITY: None known

# REPRODUCTIVE TOXICITY

REPRODUCTIVE EFFECTS: None known TERATOGENIC EFFECTS: None known

**MEDICAL CONDITIONS AGGRAVATED:** Not Established

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

# MATERIAL SAFETY DATA SHEET

Date Issued: 11/16/2006 MSDS No: WBL80 Date Revised: 11/16/2006

Revision No: 1

#### **BLR-ALK**

Chemical Name	Wt.%	CAS	EINECS
Sodium hydroxide	~ 25	1310-73-2	

# 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids open to get thorough rinsing. Get immediate medical attention and check for corneal damage.

**SKIN:** Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.

**INGESTION:** If swallowed, do NOT induce vomiting. Give 1 oz. vinegar or citrus juice in a glass of water, or several large glasses of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

#### 5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: None

**FLAMMABLE LIMITS:** 

Notes: None

**AUTOIGNITION TEMPERATURE: None** 

FLAMMABLE CLASS: N/A

**GENERAL HAZARD:** Corrosive **EXTINGUISHING MEDIA:** N/A

**EXPLOSION HAZARDS:** Product may react with aluminum and other alkali metals and produce explosive concentrations of hydrogen.

**FIRE FIGHTING PROCEDURES:** Firefighters should wear full protective gear and self-contained breathing apparatus with full face shield to protect from toxic and corrosive fumes and mists.

FIRE EXPLOSION: None

SENSITIVE TO STATIC DISCHARGE: None

**SENSITIVITY TO IMPACT:** None

HAZARDOUS DECOMPOSITION PRODUCTS: Not Established

#### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Neutralize spill with a weak acid such as vinegar or acetic acid. If possible, flush down drain. Otherwise, absorb spill with non-reactive absorbant and place in disposable container.

LARGE SPILL: Contains CERCLA hazardous materials. Dike and absorb on inert absorbant or pick up with

# MATERIAL SAFETY DATA SHEET

Date Issued: 11/16/2006 MSDS No: WBL80 Date Revised: 11/16/2006

Revision No: 1

#### **BLR-ALK**

pump and transfer to sealable container for disposal.

# 7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep this and all chemicals out of reach of children.

**HANDLING:** Avoid contact with eyes, skin and clothing. Avoid contact with aluminum and other soft metals, and painted surfaces.

STORAGE: Keep container closed when not in use. Follow label instructions.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Chemical resistant goggles or full face shield.

SKIN: Rubber boots, gloves, apron, long-sleeved clothing

RESPIRATORY: For exposure above established limits use a NIOSH/MSMA approved mask. For general

use, mechanical ventillation is recommended.

PROTECTIVE CLOTHING: Sufficient to prevent contact with product

WORK HYGIENIC PRACTICES: Wash hands and face before eating.

OTHER USE PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

**ODOR:** Little

APPEARANCE: Clear to slightly hazy liquid

COLOR: Colorless

pH: > 12

PERCENT VOLATILE: Not Established

**VAPOR PRESSURE:** ~ 1.5 mmHg

**BOILING POINT:** ~ 143°C

MELTING POINT: 12°C to 15°C

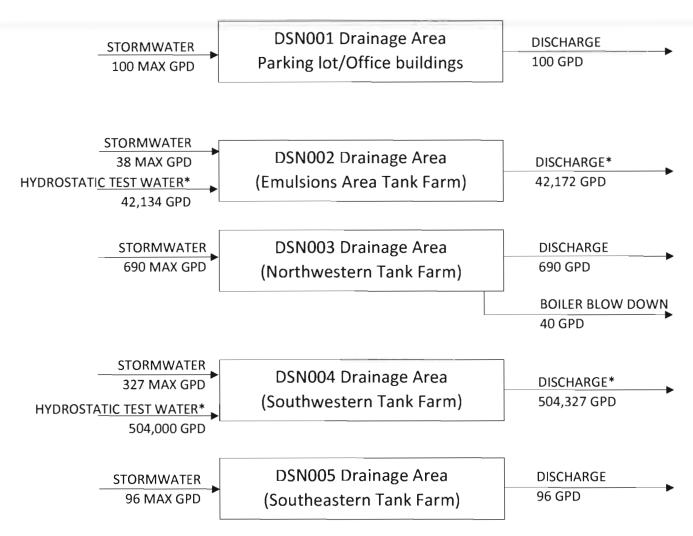
**SOLUBILITY IN WATER:** Completely Miscible

**EVAPORATION RATE:** < 1 (Water = 1)

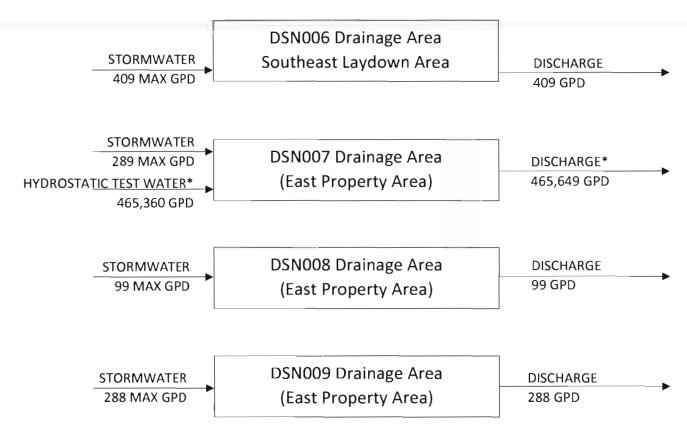
SPECIFIC GRAVITY: ~ 1.260 g/ml
WEIGHT PER VOLUME: 10.6 lb/gal

# 10. STABILITY AND REACTIVITY









## Notes:

The drainage areas are shown on the Facility Drainage Map (EPA Form 2F Attachment 1)

\* Typically, 1-3 tank is hydrostatically tested per year and hydrostatic test water discharged over a four-day period. The presented rates of discharge are worst case.

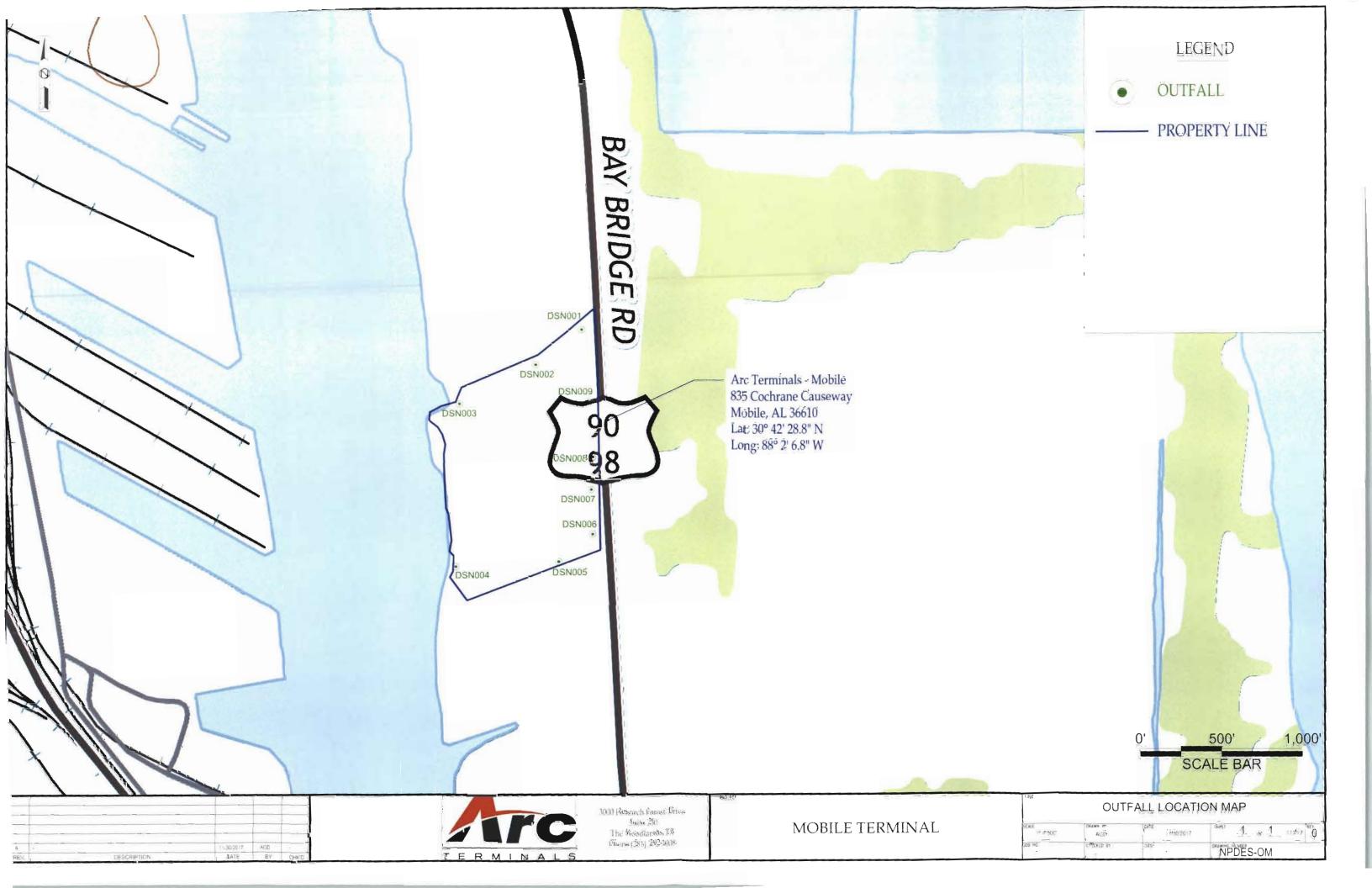
				containing, within one quarter mile of the well bore,
	28	29	30	underground sources of drinking water? (FORM 4)  31 32 33
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons?		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)
(FORM 4)	34	35	36	37 38 39
Is this facility a proposed <b>stationary source</b> which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)	40	41	42	J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)
III. NAME OF FACILITY				
SKIP ARC TERMINALS HOLDINGS LLC	МО	BIL	E TERM	NAL
15 16 - 29 30				69
IV. FACILITY CONTACT				
A. NAME & TITLE (last	. first, c	& title)		B. PHONE (area code & no.)
2 RENTZ, ALLEN HSSE MANAGER GULF	COZ	AST	REGIO	
15 16				45 46 48 49 51 52- 55
V.FACILTY MAILING ADDRESS				
A. STREET OR P.	.О. ВО	X 		
15 16				45
B. CITY OR TOWN				C. STATE D. ZIP CODE
4 MOBILE		1		AL 36633
15 16				40 41 42 47 51
VI. FACILITY LOCATION				
A. STREET, ROUTE NO. OR OTHE	R SPE	CIFIC	IDENTIFIE	R
835 COCHRANE CAUSEWAY	1 1			
15 16				45
MOBILE B. COUNTY	NAMI	E		
46				70
C. CITY OR TOWN	27	10	ATE II NZ	D. STATE E. ZIP CODE F. COUNTY CODE (if known)
6 MOBILE			7	AL 36610

IND. MUN BRANCH

CONTINUE ON REVERSE

EPA Form 3510-1 (8-90)

CONTINUED FROM THE FRONT				
VII. SIC CODES (4-digit, in order of priority)  A. FIRST	B. SECOND			
7 4226 (specialty warehousing and storage	c     (xpecify)			
C. THIRD	D. FOURTH			
C (specify) 7 (specify)	C       (specify)			
VIII OPERATOR INFORMATION	10 10 19			
8 ARC TERMINALS HOLDINGS, LLC	B. Is the name listed in Item  VIII-A also the owner?  ☑ YES □ NO			
C. STATUS OF OPERATOR (Enter the appropriate letter into the	the answer box: if "Other," specify.)  D. PHONE (area code & no.)			
	(specify)  A (251) 432-7666  15 6 - 18 19 - 21 22 - 26			
E. STREET OR P.O BOX				
3000 RESERACH FOREST DRIVE	55			
F. CITY OR TOWN	G. STATE H. ZIP CODE IX. INDIAN LAND			
B THE WOODLANDS	TX 77381   Is the facility located on Indian lands?   YES   NO			
X. EXISTING ENVIRONMENTAL PERMITS				
A. NPDES (Discharges to Surface Water) D. PSD (Air I	missions from Proposed Sources)			
c     T       9     N       AL0003565     9       15     16       17     18       30     15       16     17       18	30			
15   16   17   18   30   15   16   17   18	E. OTHER (specify)			
	(specify)			
9 U 9 15 16 17 18 30 15 16 17 18	30			
C. RCRA (Hazardous Wastes)	E. OTHER (specify)			
9 R 15 16 17 18 30 15 16 17 18	30			
XI. MAP	30			
Attach to this application a topographic map of the area extending to at least on location of each of its existing and proposed intake and discharge structures, each injects fluids underground. Include all springs, rivers, and other surface water bodie	e mile beyond property boundaries. The map must show the outline of the facility, the of its hazardous waste treatment, storage, or disposal facilities, and each well where it is in the map area. See instructions for precise requirements			
	The trap area. One medianterior of product requirements.			
XII. NATURE OF BUSINESS (provide a brief description)  Petroleum and bulk chemical terminal with storage tanks	s rail car loading/unloading barge/ship			
loading/unloading, and truck loading/unloading.	,, rail car loading, amounting, barge, burp			
XIII. CERTIFICATION (see instructions)				
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I				
am aware that there are significant penalties for submitting false information, includ.  A. NAME & OFFICIAL TITLE (type or print)  B. SIGNATUR				
Clayton Curtis, VP Regulatory Affairs	11/30/12			
COMMENTS FOR OFFICIAL LISE ONLY				
COMMENTS FOR OFFICIAL USE ONLY				
C				



**FORM** 

2E NPDES

# SEPA Facilities Which Do Not Discharge Process Wastewater

#### I. RECEIVING WATERS

For this outfall, list the latitude and longitude, and name of the receiving water(s).

Outfall Number (list)	Latitude			Longitude			Receiving Water (name)
Number (#St)	Deg	Min	Sec	Deg	Min	Sec	
DSN003	30	42	32.9	88	2	10.0	Mobile River via drainage

II. DISCHARGE DATE (If a new discharger, the date you expect to begin discharging)

	YΡ				

A.	Check the	box(es)	indicating	the o	general t	vpe(s)	of	wastes	discharged	d.
----	-----------	---------	------------	-------	-----------	--------	----	--------	------------	----

☐ Sanitary Wastes ☐ Restaurant or Cafeteria Wastes ☐ Noncontact Cooling Water

Other Nonprocess ✓ Wastewater (Identify)

B. If any cooling water additives are used, list them here. Briefly describe their composition if this information is available.

The non process waste water discharged from outfall DSN003 is boiler blowdown water.

### IV. EFFLUENT CHARACTERISTICS

- A. Existing Sources Provide measurements for the parameters listed in the left-hand column below, unless waived by the permitting authority (see instructions).
- B. New Dischargers -- Provide estimates for the parameters listed in the left-hand column below, unless waived by the permitting authority. Instead of the number of measurements taken, provide the source of estimated values (see instructions).

Pollutant or Parameter		Max	1) imum Value <i>(e units)</i>	Ave Value (incl	(3) Number of Measurement		Source of Estimate (if new discharger)		
	Mass Concentration		Mass	Concentration	Taken (last year)	(	if new	discharger)	
Biochemical Oxygen Demand (BOD)			7 mg/L		4 mg/L	10.00			
Total Suspended Solids (TSS)									
Fecal Coliform (if believed present or if sanitary waste is discharged)				_					
Total Residual Chlorine (if chlorine is used)									
Oil and Grease			Non detect		Non detect	10.00			
*Chemical oxygen demand (COD)									
*Total organic carbon (TOC)				_					-
Ammonia (as N)									
Discharge Flow	Value	40	GPD	0.0	19 MGD	10.00		_	
pH (give range)	Value	6.	94		3.27				
Temperature (Winter)			20.50 <b>°c</b>		20.10 °c	,			
Temperature (Summer)			28.50 °C		27 80				

DEC 0 4 2017

\*If noncontact cooling water is discharged

V. Except for leaks or spills, will the discharge described in this form be intermittent or seasonal?	Yes 🗆 No
If yes, briefly describe the frequency of flow and duration.	res 🗀 No
Discharge from DSN002 will be intermittent and/or seasonal.	
VI. TREATMENT SYSTEM (Describe briefly any treatment system(s) used or to be used)	
Typically, the gate valve is only opened (i.e., discharges from the outfall	l only occur) after the
accumulated water has been visually inspected (as required in the facilty S	SPCC Plan) for the
presence of oil sheen.	
VII. OTHER INFORMATION (Optional)	
Use the space below to expand upon any of the above questions or to bring to the attention of the reviewer any	other information you feel
	other information you feel
Use the space below to expand upon any of the above questions or to bring to the attention of the reviewer any should be considered in establishing permit limitations. Attach additional sheets, if necessary.  Samples of the water will be collected and the analytical results will be of	compared to the limits
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Use the space below to expand upon any of the above questions or to bring to the attention of the reviewer any should be considered in establishing permit limitations. Attach additional sheets, if necessary.  Samples of the water will be collected and the analytical results will be compected in NPDES Individual Permit AL0003565. The results reported were Arc Terminals is requesting that the boiler blowdown be moved to DSN003  WIII. CERTIFICATION  I certify under penalty of law that this document and all attachments were prepared under my direction or system designed to assure that qualified personnel properly gather and evaluate the information submitted. Bas persons who manage the system, or those persons directly responsible for gathering the information, the information, the information, the information, the information, the information is the state of the system of the system, or those persons directly responsible for gathering the information, the information, the information is the system of the system of the system of the system of the system, or those persons directly responsible for gathering the information, the information is the system of the syste	compared to the limits from outfall DSN001a.  supervision in accordance with a sed on my inquiry of the person or mation submitted is to the best of
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Please print or type in the unshaded areas only

2E NPDES

# **\$EPA**

# A Facilities Which Do Not Discharge Process Wastewater

### I. RECEIVING WATERS

For this outfall, list the latitude and longitude, and name of the receiving water(s).

Outfall		Latitude		1	Longitude Receiving Water (name)  Deg Min Sec		Receiving Water (name)
Number (list)	Deg	Min	Sec	Deg	Min	Sec	
DSN004	30	42	23.0	88	2	10.2	Mobile River via drainage

II. DISCHARGE DATE (If a new discharger, the date you expect to begin discharging)

#### **III.TYPE OF WASTE**

A. Check the box(es) indicating the general type(s) of wastes discharged.

Sanitary Wastes	Restaurant or Cafeteria \	Nastes

Other Nonprocess

Noncontact Cooling Water

Other Nonprocess

Wastewater (Identify)

B. If any cooling water additives are used, list them here. Briefly describe their composition if this information is available.

The non-process waste water is water used to hydrotest the storage tanks at the facility.

#### IV. EFFLUENT CHARACTERISTICS

- A. Existing Sources Provide measurements for the parameters listed in the left-hand column below, unless waived by the permitting authority (see instructions).
- B. New Dischargers Provide estimates for the parameters listed in the left-hand column below, unless waived by the permitting authority. Instead of the number of measurements taken, provide the source of estimated values (see instructions).

	Ma	(1) eximum	Aver	(2) rage Daily	(3)	(or)		(4)
Pollutant or Parameter	Dai	ily Value ude units)	Value	(last year) ude units)	Number of Measuremen	ts S		Estimate
	Mass Concentration		Mass	Taken (last year)	-   "	new as	scriarger)	
Biochemical Oxygen Demand (BOD)		~			0.00			
Total Suspended Solids (TSS)					0.00			
Fecal Coliform (if believed present or if sanitary waste is discharged)								
Total Residual Chlorine (if chlorine is used)		1 mg/L		1 mg/L	0.00		_	
Oil and Grease		15 mg/L		15 mg/L	0.00			
*Chemical oxygen demand (COD)								
*Total organic carbon (TOC)								
Ammonia (as N)								
Discharge Flow	Value	~		~				
pH (give range)	Value	~		~	0.00			
Temperature (Winter)		°C		°C				
Temperature (Summer)		renvis Src		°C				
*If noncontact cooling water is disch	arged				•		-	

IND MUN BRANCH

\*If noncontact cooling water is discharged

V. Except for leaks or spills, will the discharge described in this form be intermittent or seasonal?	
Vac	□ No
If yes, briefly describe the frequency of flow and duration.	
Discharge from DSN004 will be intermittent based on the need for hydrotesting.	
VI. TREATMENT SYSTEM (Describe briefly any treatment system(s) used or to be used)	
The fine it is to be a seed of the seed of	
~	
VII. OTHER INFORMATION (Optional)	
VII. OTHER INFORMATION (Optional)  Use the space below to expand upon any of the above questions or to bring to the attention of the reviewer any other into	formation you feel
VII. OTHER INFORMATION (Optional)  Use the space below to expand upon any of the above questions or to bring to the attention of the reviewer any other information should be considered in establishing permit limitations. Attach additional sheets, if necessary.	formation you feel
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FORM

2E **NPDES** 

# **SEPA** Facilities Which Do Not Discharge Process Wastewater

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For this outfall, list the latitude and longitude, and name of the receiving water(s).

Outfall Number (list)	(4)	Latitude	rika i	1	Receiving Water (name)		
Number (list)	Deg	Min	Sec	Deg	Min	Sec	
DSN007	30	42	27.7	88	2	0.8	Mobile River via drainage

II. DISCHARGE DATE (If a new discharger, the date you expect to begin discharging)

#### III.TYPE OF WASTE

A. Check the box(es) indicating the general type(s) of wastes discharged.

☐ Sanitary Wastes ☐ Restaurant or Cafeteria Wastes

□ Noncontact Cooling Water

Other Nonprocess Wastewater (Identify)

B. If any cooling water additives are used, list them here. Briefly describe their composition if this information is available. The non-process waste water is water used to hydrotest the storage tanks at the facility.

#### IV. EFFLUENT CHARACTERISTICS

- A. Existing Sources Provide measurements for the parameters listed in the left-hand column below, unless waived by the permitting authority (see instructions).
- New Dischargers Provide estimates for the parameters listed in the left-hand column below, unless waived by the permitting authority. Instead of the number of measurements taken, provide the source of estimated values (see instructions).

	M	(1) aximum	Ave	(2) rage Daily	(3)	(or)	(4)	
Pollutant or Parameter	Da	illy Value lude units)	Value	e (last year) ude units)	Number of Measurements		e of Estimate	
	Mass	Concentration	Mass	Concentration	Taken (last year)	(ir net	(if new discharger)	
Biochemical Oxygen Demand (BOD)								
Total Suspended Solids (TSS)								
Fecal Coliform (if believed present or if sanitary waste is discharged)								
Total Residual Chlorine (if chlorine is used)		1 mg/L		.019 mg/l	0.00			
Oil and Grease		15 mg/l		15 mg/l	0.00			
*Chemical oxygen demand (COD)								
*Total organic carbon (TOC)								
Ammonia (as N)								
Discharge Flow	Value 0.4	16 MGD	0.4	6 MGD				
pH (give range)	Value							
Temperature (Winter)		°C		°C				
Temperature (Summer)	IST		51	°C				
*If noncontact cooling water is disch	arged	- See Broad						

IND. MUN BRANCH

if noncontact cooling water is discharged

V. Except for leaks or spills, will the discharge described in this form be intermittent or seasonal? If yes, briefly describe the frequency of flow and duration.	☑ Yes ☐ No
Discharge from DSN007 will be intermittent based on the need for hydrote	esting.
VI. TREATMENT SYSTEM (Describe briefly any treatment system(s) used or to be used)	
VII. OTHER INFORMATION (Optional)	
VII. OTHER INFORMATION (Optional)  Use the space below to expand upon any of the above questions or to bring to the attention of the reviewer	any other information you feel
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**FORM** NPDES



30.00

42.00

U.S Environmental Protection Agency Washington, DC 20460

# **Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity**

0.70 Mobile River via Drainage

#### Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503

#### **Outfall Location** For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water. D. Receiving Water A. Outfall Number B. Latitude C. Longitude (name) 2.00 1.47 Mobile River via Drainage DSN001 30.00 42.00 37.22 -88.00 2.00 4.70 Mobile River via Drainage 42.00 DSN002 30.00 35.20 -88.00 2.00 DSN003 30.00 42.00 32.90 -88.00 10.00 Mobile River via Drainage 10.20 Mobile River via Drainage 30.00 42.00 -88.00 2.00 DSN004 23.00 DSN005 30.00 42.00 23.30 -88.00 2.00 3.00 Mobile River via Drainage

2.00

#### 42.00 -88.00 2.00 0.80 Mobile River via Drainage DSN007 30.00 27.70 42.00 -88.00 2.00 0.67 Mobile River via Drainage DSNOOR 30.00 29.56 42.00 DSN009 30.00 33.00 -88.00 2.00 0.94 Mobile River via Drainage

24.90

-88.00

### II. Improvements

DSN006

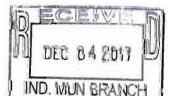
A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

Identification of Conditions,	:	2. Affected Outfalls		4. Final Compliance Date		
Agreements, Etc.	number	source of discharge	Brief Description of Project	a. req.	b. proj.	
Not applicable						
_			<u> </u>			

B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction

### III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility.



lιν	Narrative	Description	of Pollutant	Sources
ĮΙV.	Marranve	Describition	oi Foliutani	. Sources

A. For each outfall, provide an estimate of the area (include units) of imperious surfaces (including paved areas and building roofs) drained to the outfall and an estimate of the total surface area drained by the outfall

Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)
DSN001 DSN002 DSN003 DSN004 DSN005	.54 acres .05 acres 2.0 acres 1.0 acres 0.5 acres	1.0 acres 0.4 acres 7.2 acres 3.4 acres 1.0 acres	DSN006 DSN007 DSN008 DSN009	.05 acres .90 acres .85 acres 1.5 acres	4.3 acres 3.0 acres 1.0 acres 3.0 acres

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas, and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

Petroleum products are currently and have been stored at the facility, but mainly asphalt All storage tanks and loading racks are contained and any water discharged from the contaiments is treated by an oil/water separator. Management practices employed to minimize petroleum product contact with storm water runoff include employee training, regular visual inspections, and routine maintenance.

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F-1
DSN001-009	The locations of the structural control measures (closed and locked valves(except 001), tank berms) are shown on the attached site drainage map. Non structural controls include: 1) employee training; 2) best management practice plans; 3) spill prevention control and counter measure plans; 3) regular visual inspections; and 4) routine preventative maintenance.	1-F, 1-T

V	,	No	ne	tor	mv	vate	er C	)ie	cha	ra	29
w		140	,,,3	w	HILLA	rau	51 L	,,,	61 I C	uu	63

A. I certify under penalty of law hat the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and t	that all
nonstormwater discharged from these outfall(s) are identified in either an accompanying Form 2C or From 2E application for the outfall.	

Name and Official Title (type or print)

Signature

Date Signed

11/30/12

Clayton Curtis, VP Reg. Affairs

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

There are no nonstorm water discharges from the facility.

### VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

N/A

Continued	from	Page	2
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VII. Discharge Information			
	proceeding. Complete one set of tables for each outfall are included on separate sheets numbers VII-1 and V		space provided.
	y analysis – is any toxic pollutant listed in table 2F-2 ntermediate or final product or byproduct?	, 2F-3, or 2F-4, a substance or a c	component of a substance which you
Yes (list all such pollutant	s below)	$\checkmark$ No (go to Section IX)	
VIII. Biological Toxicity Testing	Data		
Do you have any knowledge or reason t	o believe that any biological test for acute or chronic to	exicity has been made on any of you	r discharges or on a receiving water in
relation to your discharge within the last  Yes (list all such pollutants	•	✓ No (go to Section IX)	
Yes (list the name, address analyzed by, each suc	m VII performed by a contract laboratory or consulting s, and telephone number of, and pollutants h laboratory or firm below)	No (go to Section X)	D. Pollutants Analyzed
A. Name	B. Address	C. Area Code & Phone No.	5. Foliulants Analyzeu
Pace Analytical	1000 Riverbend Blvd., Suite F St Rose, LA 70087	(504) 469-0333	BTEX, napthalene, MTBE, oil & grease, total nitrogen, total phosphorous, chemical oxygen demand, biological oxygen demand, total suspended solids.
X. Certification			
that qualified personnel properly gather directly responsible for gathering the int	ocument and all attachments were prepared under my and evaluate the information submitted. Based on my formation, the information submitted is, to the best of ing false information, including the possibility of fine ar	nquiry of the person or persons who my knowledge and belief, true, acc	manage the system or those persons urate, and complete. I am aware that
A. Name & Official Title (Type Or Print)		B. Area Code and Phone No.	
Clayton Curtis, VP Reg.	Affairs	(823) 823-7225	
C. Signature		D. Date Signed	
16/18		11/30/17	<u></u>
EPA Form 3510-2F (1-92)	Page 3 of 3		

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

<u>DSN001</u>	1	um Values ide units)		erage Values aclude units)	Number		
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants	
Oil and Grease	< 2.0 ppm		<2.00 ppm		7.00	Storage tanks	
Biological Oxygen Demand (BOD5)	7 mg/L		4 mg/L		7.00	Storage tanks	
Chemical Oxygen Demand (COD)	41 mg/L		34.2 mg/L		7.00	Storage tanks	
Total Suspended Solids (TSS)	42 mg/L		7 mg/L		3.00	Storage tanks	
Total Nitrogen	N/A		N/A			Storage tanks	
Total Phosphorus	N/A		N/A			Storage tanks	
pH	Minimum 6.94	Maximum 8.27	Minimum	Maximum			

	Maximum Values (include units)		Aver (inc	age Values lude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
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Part C - Lis	it each pollutant sho quirements. Complet	wn in Table 2F-2, 2F-3 e one table for each ou	i, and 2⊦-4 that yo itfall.	ou know or have reason to	o believe	s is prese	nt. See the instru	ections for additional details and
DNS001		um Values ide units)	Ave (ir	erage Values oclude units)	Nur	mber		
Pollutant and CAS Number	Grab Sample Taken During First 20	Flow-Weighted	Grab Sample Taken During First 20	Flow-Weighted	Ste	of torm rents		<b>(P</b> ) 10 10
(if available)	Minutes	Composite	Minutes	Composite	San	mpled	-	ources of Pollutants
Benzene							Storage Tank	
Ethylbenzene							Storage Tank	
Toluene							Storage Tank	
Xylene							Storage Tank	(S
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Part D - Pr	ovide data for the sto	orm event(s) which resu	lted in the maxim	um values for the flow weig	ghted cor	mposite s	•	
1. Date of Storm Event	Date of Duration Total rainfall Storm of Storm Event during storm event		event	4. Number of hours betwee beginning of storm meas and end of previous measurable rain even	easured rai ous (gallor		5. flow rate during in event or cify units)	6. Total flow from rain event (gallons or specify units)
7. Provide a	description of the me	thod of flow measurem	ent or estimate.					

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

DSN002		um Values ide units)	Average Values (include units)		Number		
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants	
Oil and Grease	Not Detected		Not Detecte		1.00	Storage tanks	
Biological Oxygen Demand (BOD5)	6 mg/L		6 mg/L		1.00	Storage tanks	
Chemical Oxygen Demand (COD)	41 mg/L		34.2 mg/L		1.00	Storage tanks	
Total Suspended Solids (TSS)	Not detected		Not detecte		1.00	Storage tanks	
Total Nitrogen	N/A		N/A			Storage tanks	
Total Phosphorus	N/A		N/A			Storage tanks	
pH	Minimum 7.35	Maximum 7.35	Minimum	Maximum			

,040.	Maximu (inclus	um Values de units)	Ave	rage Values clude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
TDS	68 mg/L		68 mg/L		1.00	
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Part C - Lis	t each pollutant show	wn in Table 2F-2, 2F-3 e one table for each ou	, and 2F-4 that yo	ou know or have reason to	believe is pres	ent See the instruc	ctions for additional details and
DNS002	Maximu	um Values de units)	Ave	erage Values	Number		
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	So	urces of Pollutants
Benzene	Not Detected	Composite	Not Detecte	Composite	1.00	Storage Tanks	
Ethyloenzene	Not Detected		Not Detecte		1.00	Storage Tanks	3
Toluene	Not Detected		Not Detecte		1.00	Storage Tanks	3
Xylene	Not Detected		Not Detecte		1.00	Storage Tanks	3
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Part D - Pr	ovide data for the sto	orm event(s) which resu	ilted in the maxim	um values for the flow wei	ghted composite	sample.	
1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rain during storm (in inche	n event	Number of hours betwee beginning of storm meas and end of previous measurable rain ever	sured (gal	m flow rate during rain event ons/minute or oecify units)	6. Total flow from rain event (gallons or specify units)
7. Provide a	description of the me	ethod of flow measurem	ent or estimate.				

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details

DSN003		um Values ude units)	Average Values (include units)		Number		
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants	
Oil and Grease	Not Detected		Not Detecte		1.00	Storage tanks	
Biological Oxygen Demand (BOD5)	6 mg/L		6 mg/L		1.00	Storage tanks	
Chemical Oxygen Demand (COD)	41 mg/L		34.2 mg/L		1.00	Storage tanks	
Total Suspended Solids (TSS)	Not detected		Not detecte		1.00	Storage tanks	
Total Nitrogen	N/A		N/A			Storage tanks	
Total Phosphorus	N/A		N/A			Storage tanks	
рН	Minimum 7.35	Maximum 7.35	Minimum	Maximum			

	(inclu	um Values ide units)	Aver (inc	age Values lude units)	Number		
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants	
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TDS	68 mg/L	_	68 mg/L	_	1.00		
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DNS003	Maximi	te one table for each ou um Values	Ave	erage Values			
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Number of Storm Events Sampled	Sc	ources of Pollutants
Benzene	Not Detected	Somposio	Not Detecte	OOMpoons	1.00	Storage Tank	
Ethylbenzene	Not Detected		Not Detecte		1.00	Storage Tank	
Toluene	Not Detected		Not Detecte		1.00	Storage Tank	
Xylene	Not Detected		Not Detecte		1.00	Storage Tank	
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Part D - Pro	ovide data for the sto	orm event(s) which resu	ilted in the maxim	um values for the flow wei	ighted composit	e sample	
T GREE TR	Stride data for the ste	The contract test	nted in the maxim	4.	grited composit	5.	
1 Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rair during storm (in inche	n event	Number of hours between beginning of storm meas and end of previous measurable rain ever	sured (gai	m flow rate during rain event lons/minute or pecify units)	6. Total flow from rain event (gallons or specify units)
7. Provide a	description of the me	ethod of flow measurem	ent or estimate.				

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

DSN004		um Values ide units)		erage Values aclude units)	Number	Sources of Pollutants	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled		
Oil and Grease	Not Detected		Not Detecte		1.00	Storage tanks	
Biological Oxygen Demand (BOD5)	6 mg/L		6 mg/L		1.00	Storage tanks	
Chemical Oxygen Demand (COD)	41 mg/L		34.2 mg/L		1.00	Storage tanks	
Total Suspended Solids (TSS)	Not detected		Not detecte		1.00	Storage tanks	
Total Nitrogen	N/A		N/A			Storage tanks	
Total Phosphorus	N/A		N/A			Storage tanks	
рН	Minimum 7.35	Maximum 7.35	Minimum	Maximum			

	(inclu	Maximum Values (include units)		erage Values clude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
TDS	68 mg/L		68 mg/L		1.00	

Continued from the Front  Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and									
Part C - Lis	t each pollutant show	wn in Table 2F-2, 2F-3 e one table for each ou	3, and 2F-4 that youtfall.	ou know or have reason to	believe is	s present. See the	instructions for additional details and		
DNS004		um Values de units)		erage Values eclude units)	Numi	ber			
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Stor Ever Samp	rm nts	Sources of Pollutants		
Benzene	Not Detected		Not Detecte		1.00	Storage	Tanks		
Ethylbenzene	Not Detected		Not Detecte		1.00	Storage	Tanks		
Toluene	Not Detected		Not Detecte		1.00	Storage	Tanks		
Xylene	Not Detected		Not Detecte		1.00	Storage	Tanks		
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Part D - Pr	ovide data for the sto	rm event(s) which resi	ulted in the maxim	um values for the flow wei	ighted com	posite sample. 5.			
1 Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rai during storr (in inch	m event	4. Number of hours betweethead of storm measurable rain eve	sured	aximum flow rate of rain event (gallons/minute of specify units)	Total flow from		
7. Provide a	description of the me	ethod of flow measurer	ment or estimate.						

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

DSN005  Pollutant and CAS Number (if available)		um Values ide units)	Average Values (include units)		Number	
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	Not Detected		Not Detecte		1.00	Storage tanks
Biological Oxygen Demand (BOD5)	Not Detected		Not Detecte		1.00	Storage tanks
Chemical Oxygen Demand (COD)	Not Detected		Not Detecte		1.00	Storage tanks
Total Suspended Solids (TSS)	31 mg/L		31 mg/L		1.00	Storage tanks
Total Nitrogen	N/A		N/A			Storage tanks
Total Phosphorus	N/A		N/A			Storage tanks
pH	Minimum 7.32	Maximum 7.32	Minimum	Maximum		Storage tanks

requir	ements.					
	Maxim (inclu	um Values ide units)	Ave (in	erage Values clude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Solids, Tot Dis	96 mg/L		96 mg/L		1.00	
_						

		e one table for each ou		ou know or have reason to	o believe is prese	nt. See the instruc	ctions for additional details and
DNS005		um Values ide units)		erage Values oclude units)	Number		_
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	So	urces of Pollutants
Benzene	Not Detected		Not Detecte		1.00	Storage Tank	s
Ethylbenzene	Not Detected		Not Detecte		1.00	Storage Tank	
Toluene	Not Detected		Not Detecte		1.00	Storage Tanks	3
Xylene	Not Detected		Not Detecte		1.00	Storage Tanks	3
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Part D - Pr	avide data for the sta	orm quant(a) which room	stad in the maxim	um values for the flow wei	ahtad sampasita		
raitu- Pi	ovide data for the sit	orni event(s) which rest	ated in the maxim	4.	gnied composite :	5.	
1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rair during storm (in inche	event	Number of hours betwee beginning of storm meas and end of previous measurable rain ever	sured ra (gallo	flow rate during un event ns/minute or ecify units)	6. Total flow from rain event (gallons or specify units)
7. Provide a	description of the me	ethod of flow measurem	ent or estimate.				

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

DSN006		um Values ide units)		erage Values eclude units)	Number		
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants	
Oil and Grease	Not Detected		Not Detecte		1.00	Storage tanks	
Biological Oxygen Demand (BOD5)	Not Detected		Not Detecte		1.00	Storage tanks	
Chemical Oxygen Demand (COD)	Not Detected		Not Detecte		1.00	Storage tanks	
Total Suspended Solids (TSS)	31 mg/L		31 mg/L		1.00	Storage tanks	
Total Nitrogen	N/A		N/A			Storage tanks	
Total Phosphorus	N/A		N/A			Storage tanks	
рН	Minimum 7.32	Maximum 7.32	Minimum	Maximum		Storage tanks	

	(inclu	um Values ide units)	Ave (in	rage Values clude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Solids, Tot Dis	96 mg/L		96 mg/L		1.00	
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					-	
	-					

Part C - Lis	st each pollutant sho quirements Complet	wn in Table 2F-2, 2F-3 te one table for each ou	s, and 2F-4 that yout offall.	ou know or have reason t	o believe is	s preser	nt. See the instru	ctions for additional details and
DNS006		um Values ide units)	Ave	erage Values aclude units)	Numi	ber		
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Stor Ever Samp	rm nts	So	ources of Pollutants
Benzene	Not Detected	Composite	Not Detecte	Composite	1.00	_	Storage Tank	s
Ethylbenzene	Not Detected		Not Detecte		1.00		Storage Tank	s
Toluene	Not Detected		Not Detecte		1.00		Storage Tank	s
Xylene	Not Detected		Not Detecte		1.00		Storage Tank	
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Part D - Pr	ovide data for the sto	orm event(s) which resu	ilted in the maxim	um values for the flow wei	ighted com	nneite e	amnle	
			Tree maxim	4.	grited com	poone o	5.	
1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rair during storm (in inche	n event	Number of hours between beginning of storm meast and end of previous measurable rain ever	sured	raı (gallon	flow rate during in event is/minute or cify units)	6. Total flow from rain event (gallons or specify units)
7. Provide a	description of the me	ethod of flow measurem	nent or estimate.					
					_			

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details,

<u>DSN007</u>		um Values ude units)		erage Values iclude units)	Number		
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants	
Oil and Grease	Not Detected		Not Detecte		1.00	Storage tanks	
Biological Oxygen Demand (BOD5)	Not Detected		Not Detecte		1.00	Storage tanks	
Chemical Oxygen Demand (COD)	Not Detected		Not Detecte		1.00	Storage tanks	
Total Suspended Solids (TSS)	31 mg/L		31 mg/L		1.00	Storage tanks	
Total Nitrogen	N/A		N/A			Storage tanks	
Total Phosphorus	N/A		N/A			Storage tanks	
рН	Minimum 7.32	Maximum 7.32	Minimum	Maximum		Storage tanks	

Maximum Values (include units)		Aver (inc	age Values dude units)	Number		
Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants	
96 mg/L		96 mg/L		1.00		
	·					
	Grab Sample Taken During First 20	(include units)  Grab Sample Taken During First 20 Flow-Weighted Minutes Composite	Grab Sample Taken During First 20 Minutes Flow-Weighted Composite Grab Sample Taken During First 20 Minutes Minutes	Grab Sample Taken During First 20 Minutes  Grab Sample Taken During First 20 Minutes  Grab Sample Taken During First 20 Flow-Weighted Minutes  Grab Sample Taken During First 20 Flow-Weighted Minutes  Composite	Grab Sample Taken During First 20 Minutes  Grab Sample Taken During First 20 Flow-Weighted Composite  Grab Sample Taken During First 20 Flow-Weighted Flow-Weighted Flow-Weighted Events Sampled	

rec	quirements. Complet	te one table for each ou	tfall.	ou know of flave reason to	o believe is pies	ent. See the matru	ctions for additional details and
DNS007		um Values ide units)	Av	erage Values nclude units)	Number		
Pollutant	Grab Sample		Grab Sample		of		
and	Taken During		Taken During		Storm		
CAS Number (if available)	First 20 Minutes	Flow-Weighted	First 20	Flow-Weighted	Events Sampled	Sc	ources of Pollutants
Benzene	Not Detected	Composite	Minutes Not Detecte	Composite	1.00	Storage Tank	
					_	_	
	Not Detected		Not Detecte		1.00	Storage Tank	
Toluene	Not Detected		Not Detecte		1.00	Storage Tank	S
Xylene	Not Detected		Not Detecte		1.00	Storage Tank	s
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Dod D. Dr			Mand in Man				
Part D - Pro	ovide data for the sto	orm event(s) which resu	iteo in the maxim	um values for the flow wei	gnted composite	5.	
1.	2.	3.		Number of hours between	een Maximur	n flow rate during	6.
Date of	Duration	Total rain		beginning of storm meas	sured r	ain event	Total flow from
Storm Event	of Storm Event (in minutes)	during storm (in inche		and end of previous measurable rain ever		ons/minute or ecify units)	rain event (gallons or specify units)
273.11	(11111111111111111111111111111111111111	(#####	,,,,	medodrable falli ever	35		(ganons or specify arms)
7. Provide a	description of the me	ethod of flow measurem	ent or estimate.		<u> </u>		
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Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

DSN008		um Values ude units)		erage Values oclude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	Not Detected		Not Detecte		1.00	Storage tanks
Biological Oxygen Demand (BOD5)	Not Detected		Not Detecte		1.00	Storage tanks
Chemical Oxygen Demand (COD)	Not Detected		Not Detecte		1.00	Storage tanks
Total Suspended Solids (TSS)	31 mg/L		31 mg/L		1.00	Storage tanks
Total Nitrogen	N/A		N/A			Storage tanks
Total Phosphorus	N/A		N/A			Storage tanks
рН	Minimum 7.32	Maximum 7.32	Minimum	Maximum		Storage tanks

	(inclu	um Values ude units)	Ave.	rage Values clude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Solids, Tot Dis	96 mg/L		96 mg/L		1.00	
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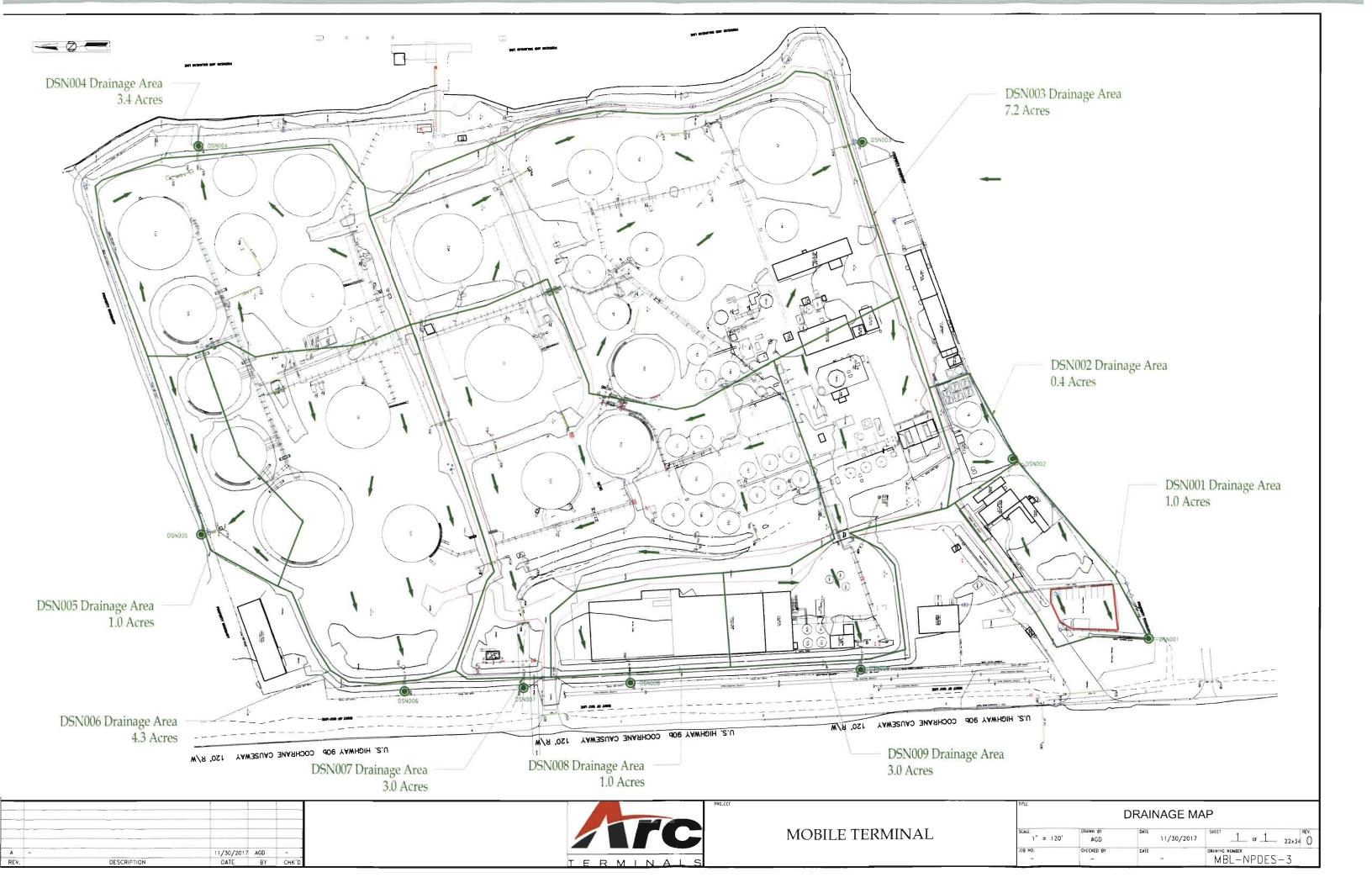
		wn in Table 2F-2, 2F-3 te one table for each ou		ou know or have reason to	o believe is prese	ent. See the instru	ictions for additional details and
DNS008	Maximi	um Values	Ave	erage Values			
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20	Flow-Weighted	Grab Sample Taken During First 20	Flow-Weighted	Number of Storm Events Sampled		purses of Delluterte
Benzene	Minutes Not Detected	Composite	Minutes Not Detecte	Composite	1.00	Storage Tank	ources of Pollutants
	Not Detected		Not Detecte		1.00	Storage Tank	
Toluene	Not Detected		Not Detecte		1.00	Storage Tank	
Xylene	Not Detected		Not Detecte		1.00		
Ayrene	Not Detected		Not Detecte		1.00	Storage Tank	.5
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						-	
					-		
				-			
Part D - Pro	ovide data for the sto	orm event(s) which resu	Ited in the maximu	um values for the flow wei	anted composite	sample.	
				4.		5.	
1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rain during storm <i>(in inche</i>	event	Number of hours between beginning of storm meas and end of previous measurable rain ever	sured ra (gallo	flow rate during nin event ns/minute or ncify units)	6. Total flow from rain event (gallons or specify units)
7. Provide a	description of the me	thod of flow measurem	ent or estimate.				

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

<u>DSN009</u>	Maximum Values (include units)			erage Values aclude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	< 2.0 ppm		<2.00 ppm		7.00	Storage tanks
Biological Oxygen Demand (BOD5)	7 mg/L		4 mg/L		7.00	Storage tanks
Chemical Oxygen Demand (COD)	41 mg/L		34.2 mg/L		7.00	Storage tanks
Total Suspended Solids (TSS)	42 mg/L		7 mg/L		3.00	Storage tanks
Total Nitrogen	N/A		N/A			Storage tanks
Total Phosphorus	N/A		N/A			Storage tanks
рН	Minimum 6.94	Maximum 8.27	Minimum	Maximum		

	(inclu	um Values ude units)	Ave (in	rage Values clude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
				_		
	_					

DNS009	(inclu	um Values de units)	Ave (ir.	erage Values aclude units)		umber			
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	S	of itorm vents mpled		Sources of Pollutants	
Benzene							Storage 3	Tanks	
Ethylbenzene							Storage 1	Tanks	
Toluene							Storage 1	Tanks	
Xylene							Storage 1	Tanks	
								_	
				_					
	L						l		
Part D - Pro	ovide data for the sto	rm event(s) which resu	ilted in the maxim	um values for the flow weight.	ghted co	omposite :	sample. 5.		
1 Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rain during storn (in inche	n event	Number of hours betwee beginning of storm meas and end of previous measurable rain ever	sured	ra (galloi	flow rate dur in event ns/minute or cify units)	Total flow from	nits)
7. Provide a	lescription of the me	thod of flow measurem	nent or estimate.						





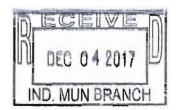
November 30, 2017

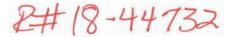
Scott Ramsey Alabama Department of Environmental Management Water Division - NPDES Permit Branch 1400 Coliseum Boulevard Montgomery, AL 36110

RE: NPDES Permit Renewal Application

NPDES Permit No: AL0003565

Arc Terminals – Mobile 835 Cochrane Causeway Mobile, AL 33610





Dear Mr. Ramsey:

This letter, the attached Alabama Department of Environmental Management (ADEM) forms, and United States Environmental Protection Agency (EPA) forms are a renewal application for National Pollution Discharge Elimination System (NPDES) Permit No: AL0003536. Permit No: AL003565 expires on May 31, 2017 and requires submission of a renewal application 180 days prior to permit expiration (i.e., December 2, 2017). Accordingly, this application has been prepared and is being submitted at this time. The following items are attached to this letter:

- ADEM Form 187 including the items attachments listed below,
  - ADEM Form 187 Attachment 1 Facility Location Map,
  - ADEM Form 187 Attachment 2 List of Potentially Used or Stored Chemicals,
  - ADEM Form 187 Attachment 3 Boiler Chemical Safety Data Sheets, and
  - ADEM Form 187 Attachment 4 Schematic of Water Flow
- EPA Form 1 including an attached Outfall Location Map;
- EPA Form 2E DSN003;
- EPA Form 2E DSN004;
- EPA Form 2E DSN007;
- EPA Form 2F including the attached Site Drainage Map; and
- Application Fee Submittal Receipt.

It should be noted that this application includes a new outfall DSN009. A portion of the storm water from the areas that previously drained to outfall DSN001 currently drain to DSN009. This change is included on EPA Form 2F. Additionally, boiler blowdown discharge was previously permitted to discharge from DSN001a and it is requested that the boiler blowdown discharge be changed to DSN003. The change in boiler blowdown discharge location is included on EPA Form 2E – DSN003.

Arc Terminals Holdings, LLC appreciates your consideration of the matter. Please do not hesitate to contact Mr. Clayton Curtis at (832) 823-7228 or myself at (251) 432-7666 if you have any questions on this matter.

Sincerely

Allen Rentz

HSSE Manager - Gulf Coast Region

835 Cochrane Causeway | Mobile, AL 33610 Phone: (251) 432-7666 | Fax: (251) 433-8622